HCD-S3000

SERVICE MANUAL

US Model
Canadian Model

HCD-S3000 is the tuner, deck, CD and amplifier section in LBT-S3000.

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CD SECTION	Model Name Using Similar Mechanism	HCD-G2500
	CD Mechanism Type	5CD DISC
	Base Unit Type	KSM-213ECM
	Optical Pick-up Type	KSS-213ECM/C2NP
TAPE DECK SECTION	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	CWL-44-RR

SPECIFICATIONS

(For the U.S model)
AUDIO POWER SPECIFICATIONS:
POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

with 6 Ω loads both channels driven, from 70 – 20,000 Hz; rated 70 W per channel minimum RMS power, with no more than 0.9% total harmonic distortion from 250 mW to rated output.

Amplifier section
Continuous RMS power output: 80W + 80W (6 Ω at 1 kHz, 10% THD)
Total harmonics distortion: Less than 0.07% (6 Ω at 1 kHz, 35W)
Inputs
PHONO IN (phono jack): sensitivity 3mV, impedance 47 kΩ
MD/VIDEO IN (phono jacks): sensitivity 250mV, impedance 47 kΩ
Outputs
PHONOS (stereo phono jacks): accepts headphones of 8 W or more
MD/VIDEO OUT (phone jack): voltage 250mV, impedance 1 kΩ
SPEAKER: accepts impedance of 6 to 16 Ω

CD player section

System	Compact disc and digital audio system
Laser	Semiconductor laser (λ = 780 nm) Emission duration: continuous
Laser output	Max. 44.6µW* *This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pock-up Block with 7 mm aperture.
Wavelength	780 – 790 nm
Frequency response	20Hz – 20kHz (±0.5 dB)
Signal-to-noise retio	More than 90 dB
Dynamic range	More than 90 dB

DIGITAL OUT (Square optical connector jack, rear panel)

Wavelength	600 nm
Output Level	–18 dBm

Tape deck section

Recording system	4-track 2-channel stereo
Frequency response (DOLBY NR OFF)	60 – 13,000 Hz (±3 dB), using Sony TYPE I cassette

Tuner section
FM stereo, FM/AM superheterodyne tuner

FM tunr section

Tuning range	87.5 – 108.0 MHz (100 kHz step)

AM tuner section

Tuning renge	530 – 1,710 kHz (with the tuning interval set at 10 kHz)
Antenna	AM loop antenna External antenna terminal
Intermediate frequency	450 kHz

— Continued on next page —

COMPACT Hi-Fi STEREO SYSTEM

MICROFILM

SONY®

General

Power requirements	120V AC, 60Hz
Power consumption	135W
Dimensions (w/h/d)	Approx. 355 × 425 × 442 mm ($14 \times 16^{3}/_{4} \times 17^{1}/_{2}$ in) incl. projecting patrs and controls
Mass	Approx. 13.1kg (28 lb 14 oz.)
Supplied accessories:	AM loop antenna (1) Remote RM-SG7B(1) FM wire antenna (1)

Design and specifications are subject to change without notice.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of soldering iron around 270˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:
Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

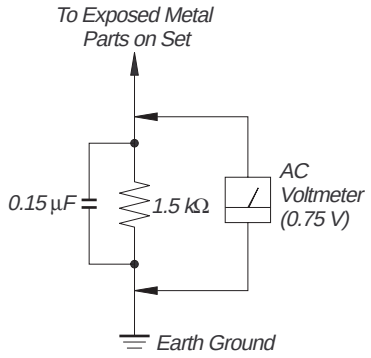

Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!
LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

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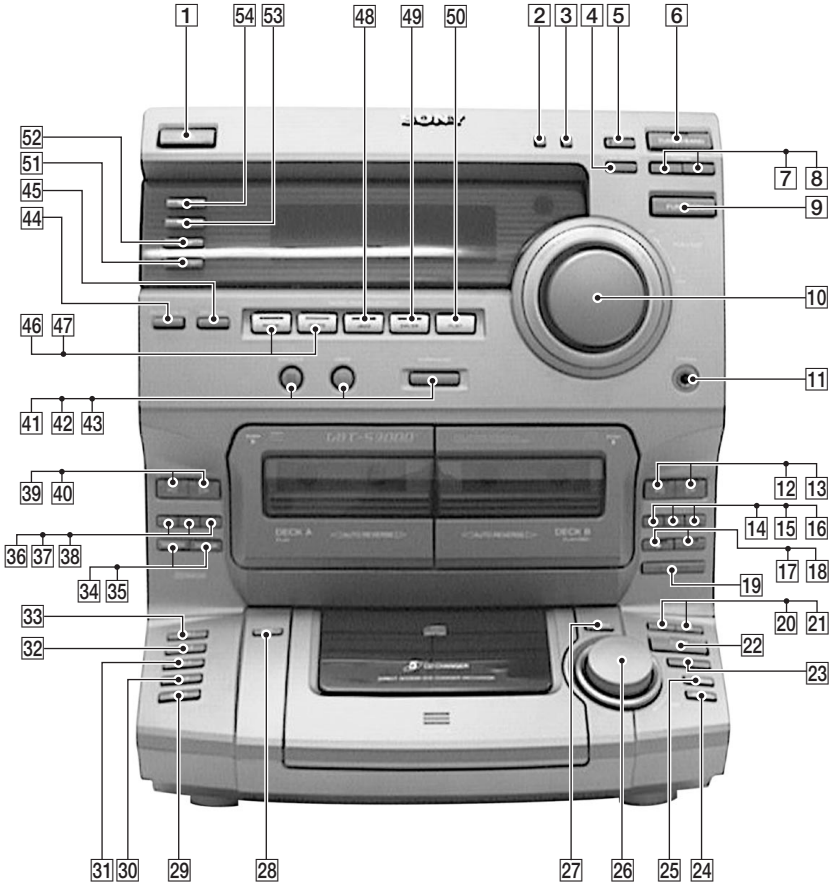
SECTION 1
GENERAL

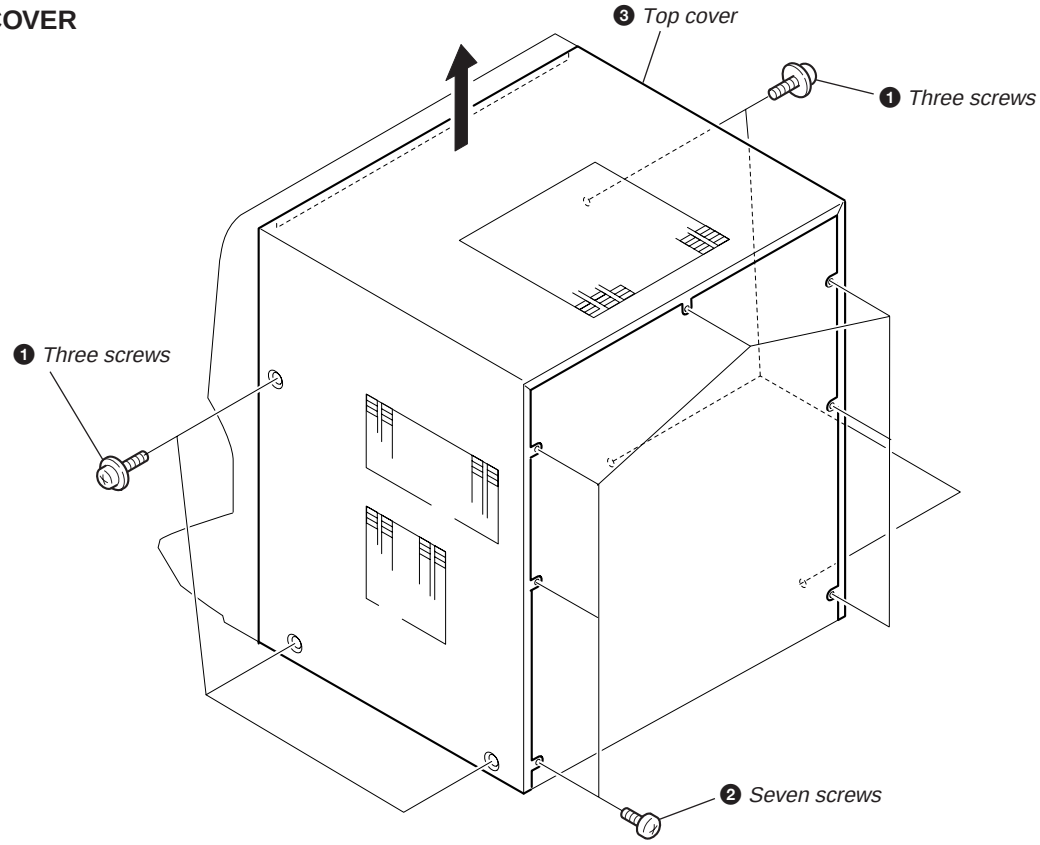


1	I/⏻ (POWER) button	19	CD SYNCHRO button	37	◀◀ button (DECK A)
2	TUNING MODE button	20	◀◀ button (CD)	38	▶▶ button (DECK A)
3	STEREO/MONO button	21	▶▶ button (CD)	39	◁ button (DECK A)
4	TUNER MEMORY button	22	▷II button (CD)	40	▷ button (DECK A)
5	ENTER/NEXT button	23	■ button (CD)	41	GROOVE button
6	TUNER/BAND button	24	REPEAT button	42	DBFB button
7	TUNING – button	25	PLAY MODE button	43	SURROUND button
8	TUNING + button	26	AMS knob	44	SPECTRUM ANALYZER button
9	FUNCTION button	27	DISC SKIP button	45	DISPLAY/DEMO button
10	VOLUME knob	28	EDIT button	46	ROCK button
11	PHONES jack	29	DISC 5 button	47	POPS button
12	◁ button (DECK B)	30	DISC 4 button	48	JAZZ button
13	▷ button (DECK B)	31	DISC 3 button	49	SALSA button
14	■ button (DECK B)	32	DISC 2 button	50	FLAT button
15	◀◀ button (DECK B)	33	DISC 1 button	51	◴ /CLOCK SET button
16	▶▶ button (DECK B)	34	DIRECTION button	52	SLEEP button
17	II button (DECK B)	35	DOLBY NR button	53	REC button
18	● REC button (DECK B)	36	■ button (DECK A)	54	DAILY button

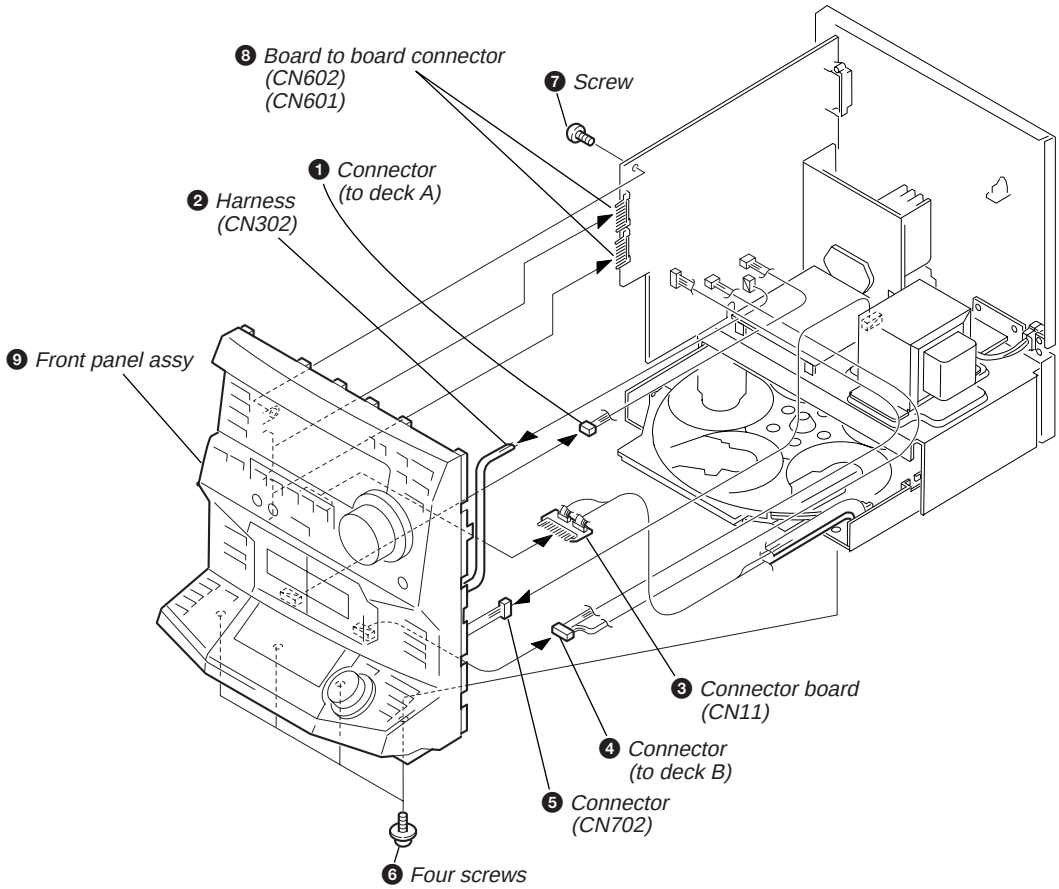
SECTION 2
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

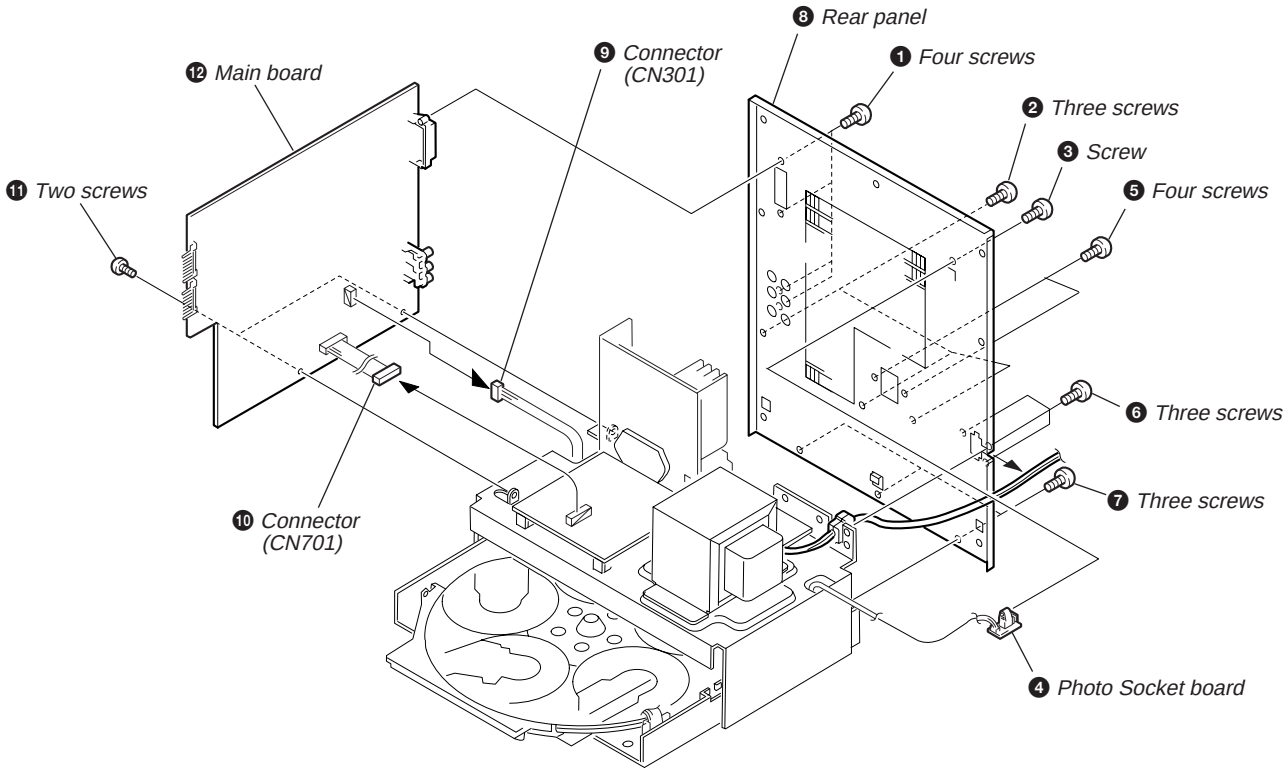
2-1. TOP COVER



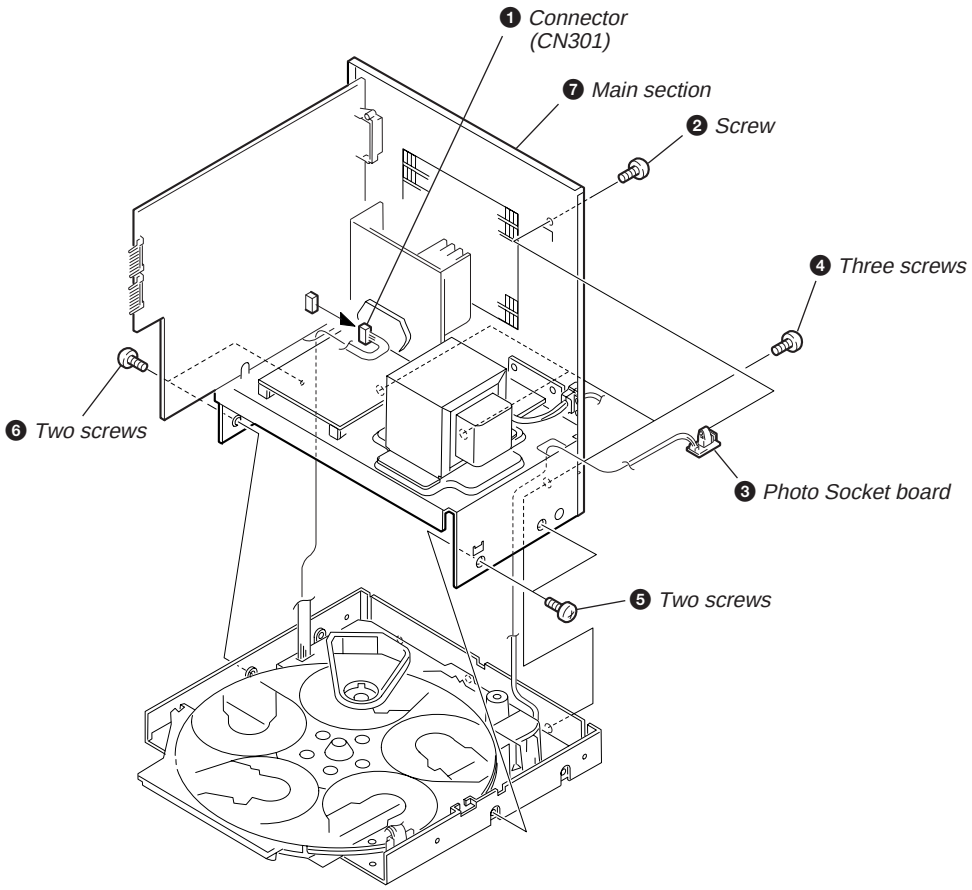
2-2. FRONT PANEL ASSY



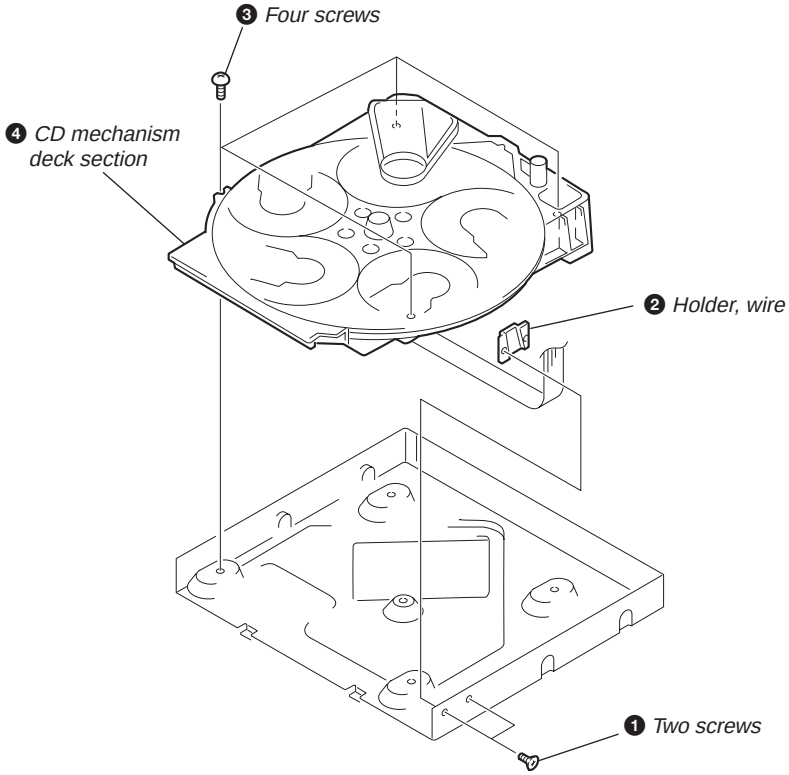
2-3. MAIN BOARD



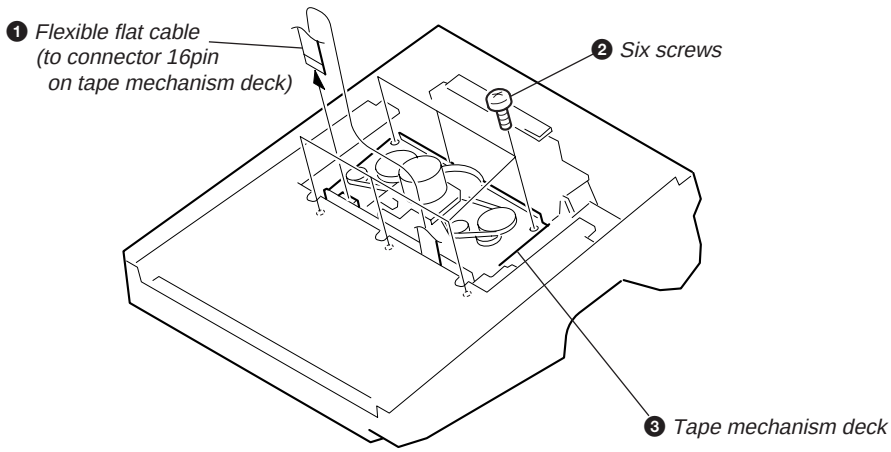
2-4. MAIN SECTION



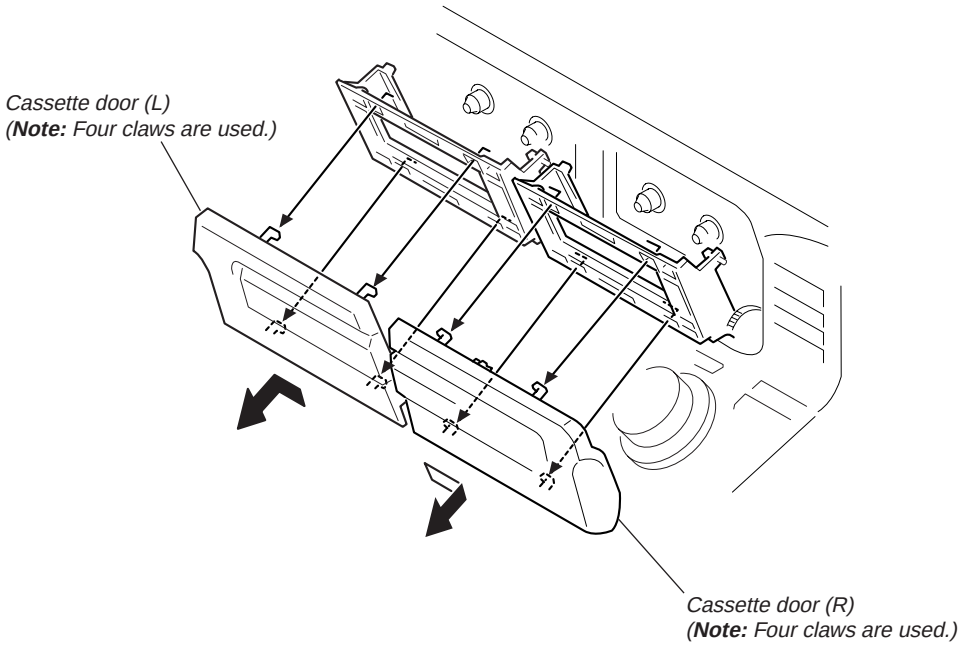
2-5. CD MECHANISM DECK SECTION



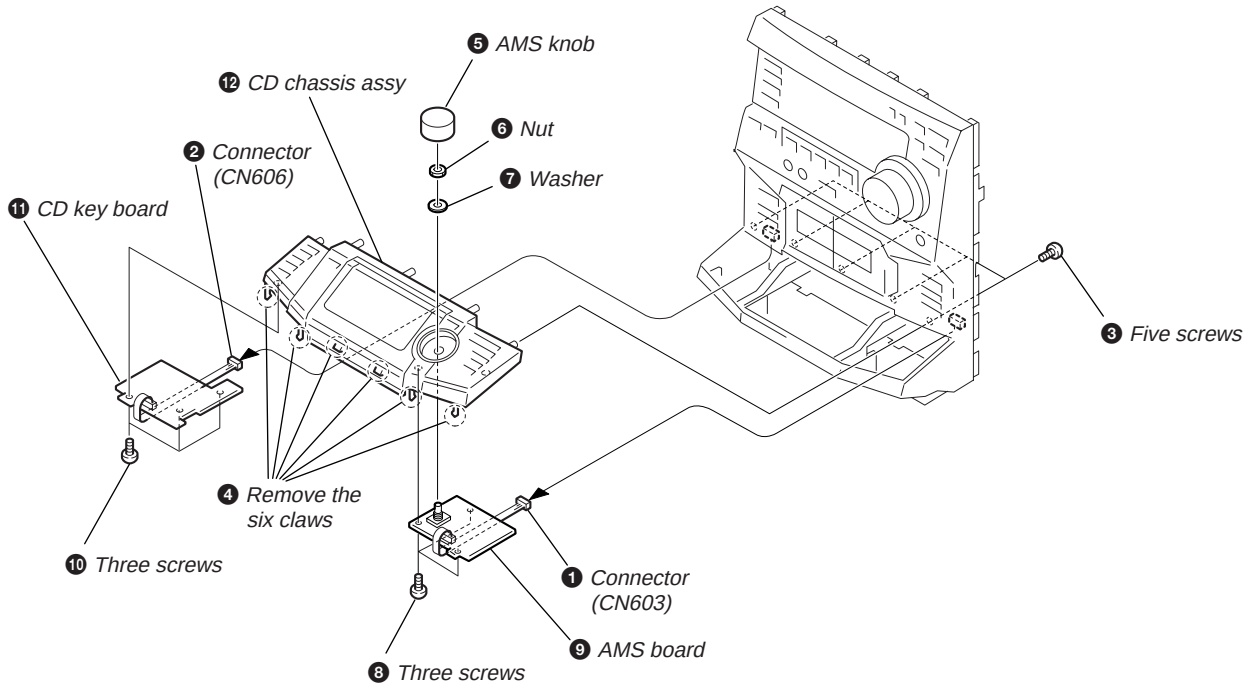
2-6. TAPE MECHANISM DECK



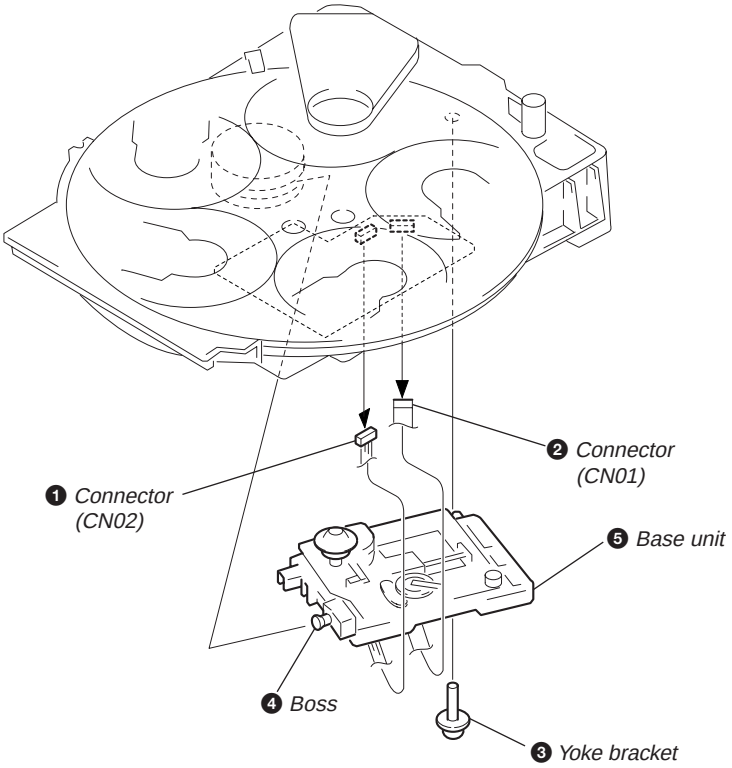
2-7. CASSETTE DOORS



2-8. CD CHASSIS ASSY

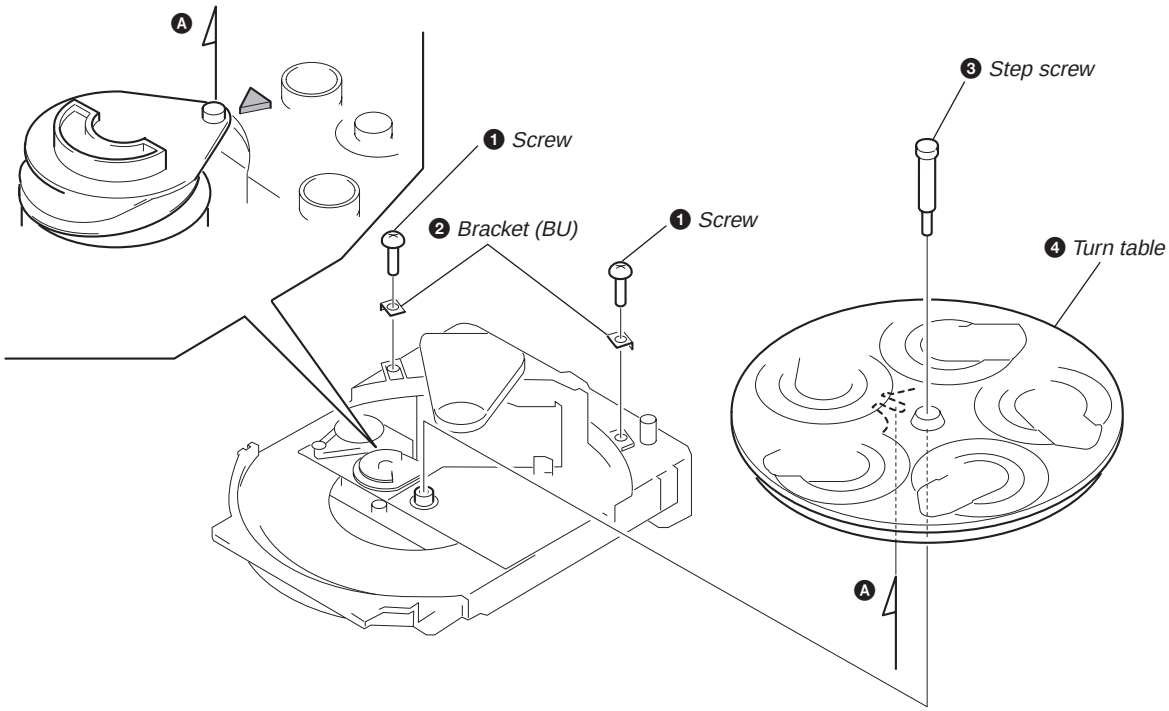


2-9. BASE UNIT



2-10. TURN TABLE

Note:
When the disc table is installed, adjust the positions of roller can and mark ▶ as shown in the figure, then set to the groove of disc table.



SECTION 3
MECHANICAL ADJUSTMENTS

Precaution

1. Clean the following parts with a denatured alcohol-moistened swab:
   record/playback head — pinch rollers
   erase head — rubber belts
   capstan — idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque meter	Meter reading
FWD	CQ-102C	40 to 70 g • cm (0.56 - 0.97 oz • inch)
FWD back tension	CQ-102C	1 to 5 g • cm (0.01 - 0.07 oz • inch)
FF/REW	CQ-201B	55 to 140 g • cm (0.76 - 1.94 oz • inch)

SECTION 4
ELECTRICAL ADJUSTMENTS

DECK SECTION **0 dB=0.775V**

1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjusted.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.

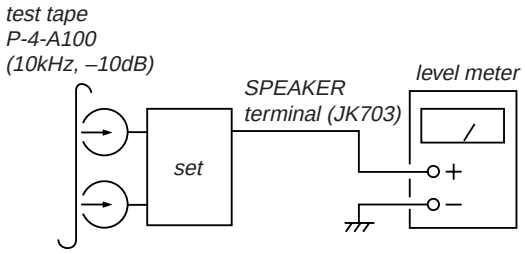
Tape	Signal	Used for
P-4-A100	10 kHz, –10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment

Record/Playback Head Azimuth Adjustment (Deck A, Deck B)

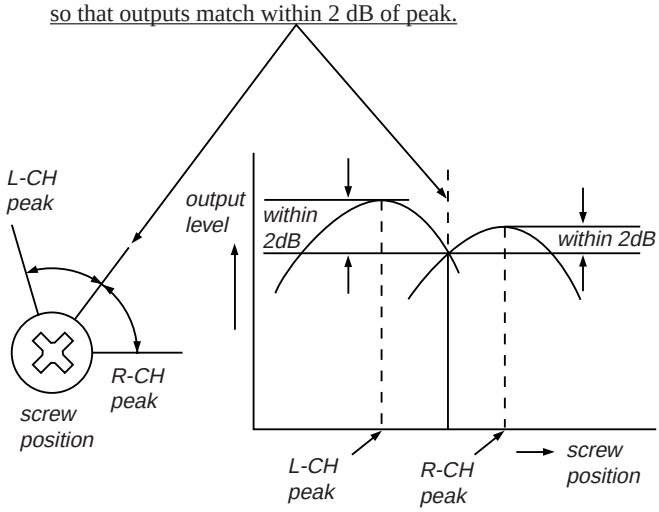
Note: Perform this adjustments for both decks.

Procedure:

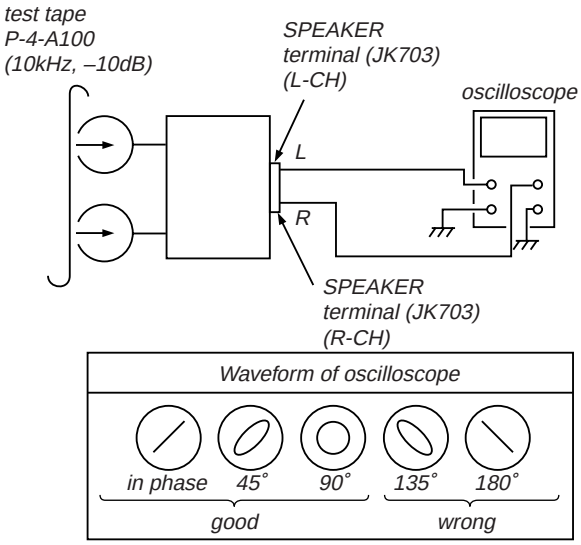
1. Mode : Playback



2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 2 dB of peak.

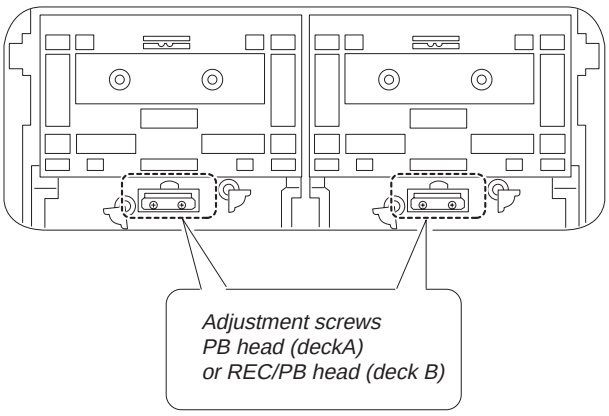


3. Mode: Playback



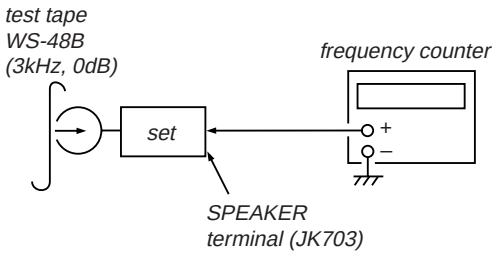
4. After the adjustments, apply suitable locking compound to the parts adjusted.

Adjustment Location:
Remove the cassette lid before adjustment (See page 8)



Tape Speed Adjustment (Deck A)

Procedure:
1. Mode: Playback

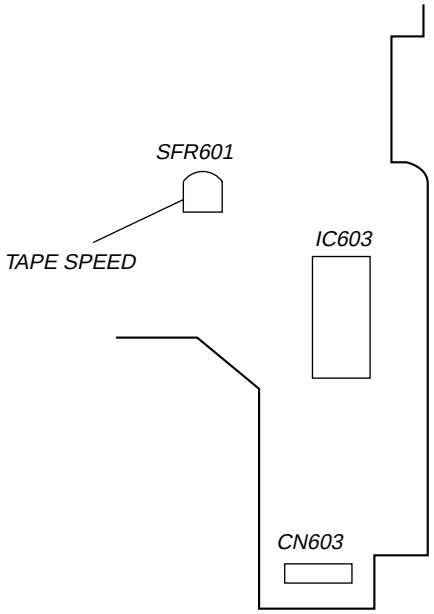


2. Adjust the SFR601 so that the frequency counter reads 3,000 Hz ± 90Hz.

Adjustment Location: FRONT board

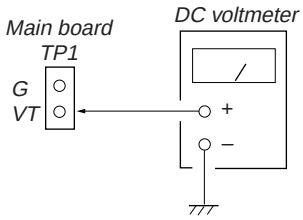
Sample Value of Wow and flutter
W. RMS (JIS) within 0.3%
(test tape: WS-48B)

Adjustment Location: FRONT board
[FRONT BOARD] — Component side —



TUNER SECTION | 0 dB=1μV

AM Tuning Voltage Adjustment

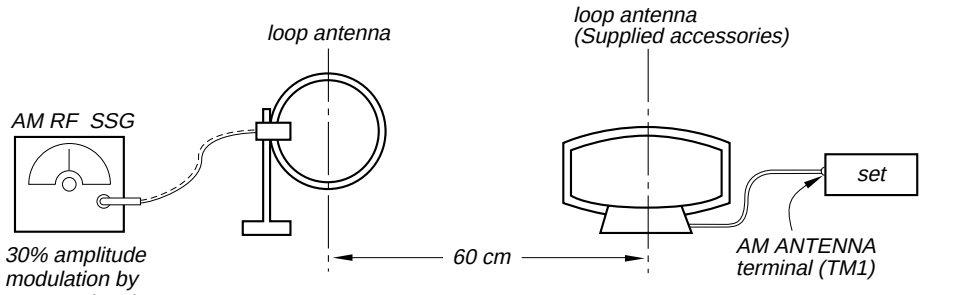


Procedure:

1. Set the reception frequency of the unit to 530 kHz.
2. Adjust L105 for 1.2 ± 0.05 V reading on the DC voltmeter.
3. Set the reception frequency of the unit to 1,710 kHz.
4. Confirm that the voltage reading on the DC voltmeter is within 8.0 ± 0.5 V.

Adjustment Location: MAIN board (See page 13)

AM Tracking Adjustment



Field strength dB (μV/m) =SSG output level dB (μV/m) –26 dB.

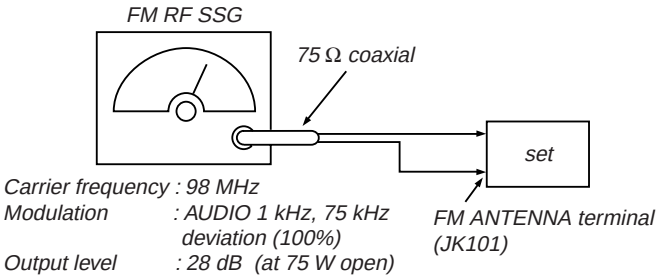
Procedure:

1. Tune the set to 600 kHz.
2. Set the output of AM RF SSG so that the input level of the set will become 60 dB (μV/m).
3. Adjust L104 so that when the waveform on the oscilloscope is maximum, no noise appears.
4. Tune the set to 1,400 kHz.
5. Adjust TC102 so that when the waveform on the oscilloscope is maximum, no noise appears.

• Repeat the procedures in each adjustment several times, and the tracking adjustment should be finally done by the trimmer capacitors.

Adjustment Location: MAIN board (See page 13)

FM Tuned Level Adjustment


FM RF SSG
75 Ω coaxial
set
Carrier frequency : 98 MHz
Modulation : AUDIO 1 kHz, 75 kHz deviation (100%)
Output level : 28 dB (at 75 W open)
FM ANTENNA terminal (JK101)

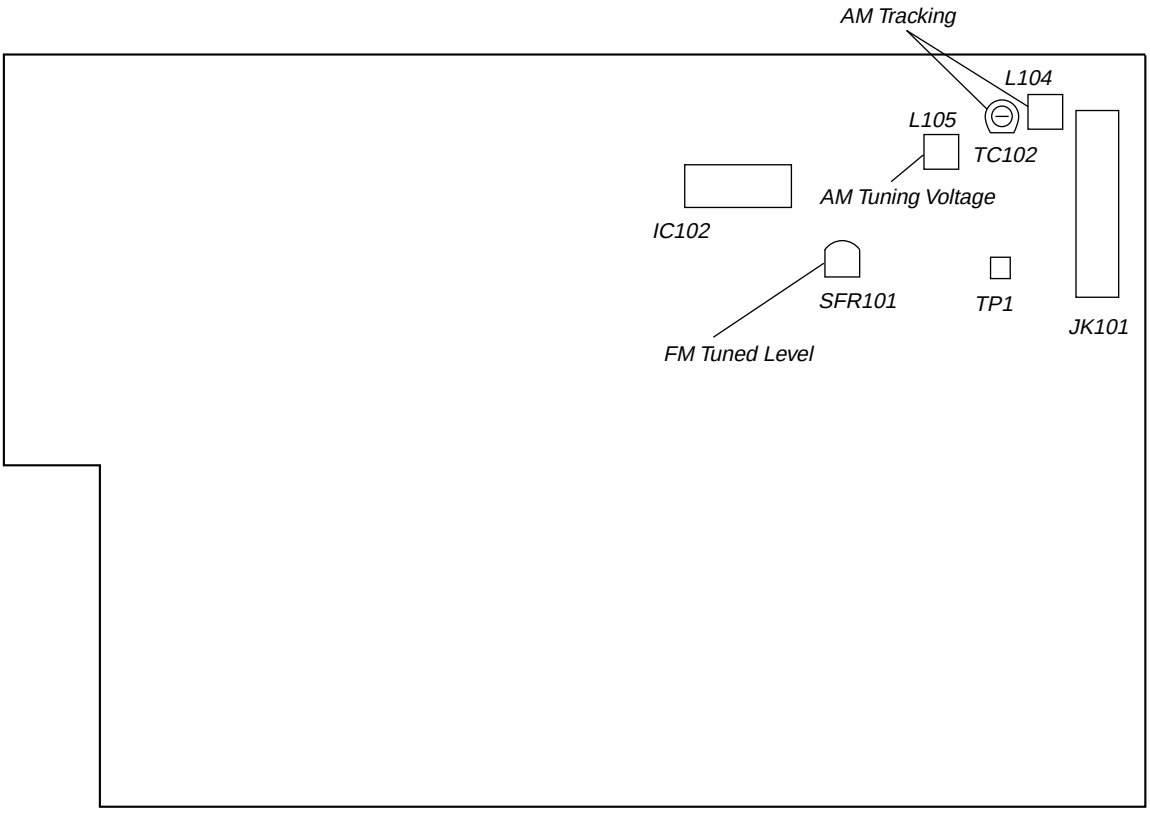
Procedure:

1. Supply a 28 dB 98 MHz signal from the ANTENNA terminal.
2. Tune the set to 98 MHz.
3. Adjust SFR101 to the point (moment) when the TUNED indicator will change from going off to going on.

Adjustment Location: MAIN board

Adjustment Location

[MAIN BOARD] — Component side —

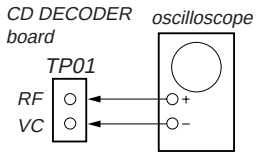


CD SECTION

Note:

1. CD Block is basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.
5. Adjust the focus bias adjustment when optical pick-up block is replaced.

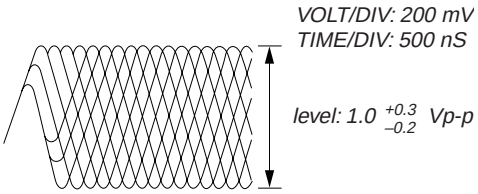
RF Level Check



Procedure :

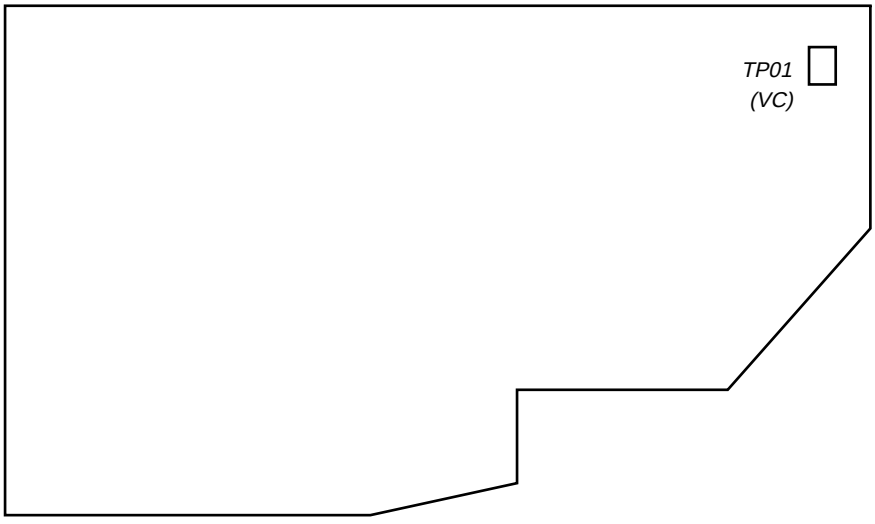
1. Connect oscilloscope to test point TP01 on CD DECODER board.
2. Turned Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note: Clear RF signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.



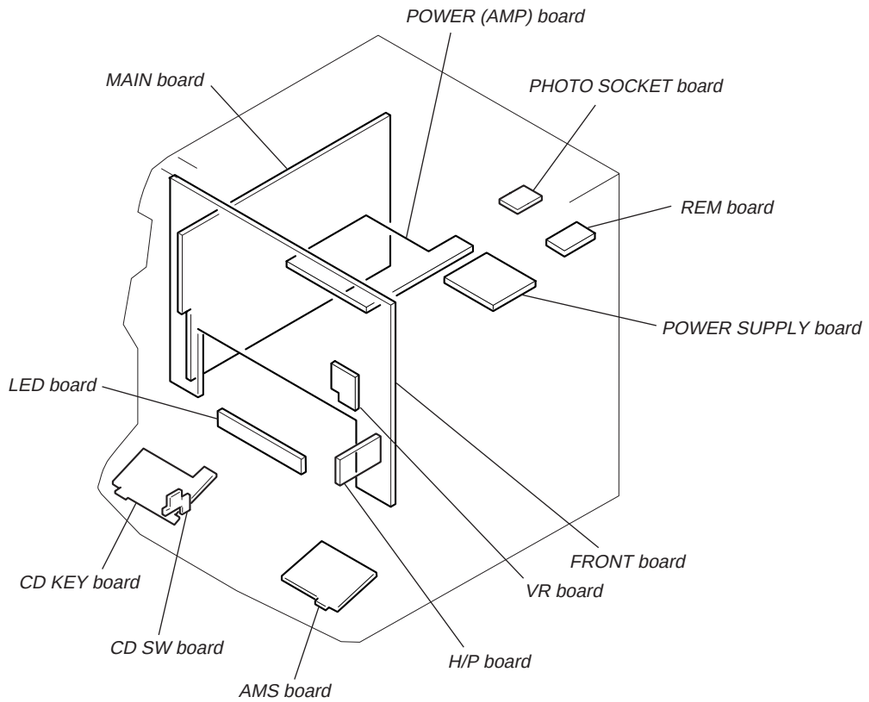
Adjustment Location:

[CD DECODER BOARD] — Component side —



SECTION 5
DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this necessary note is printed in each block.)

For schematic diagrams.
Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

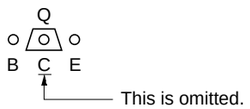
Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

- B+ : B+ Line.
- B– : B– Line.
- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.
- : FM
- : AM
- : PB (DECK A)
- : PB (DECK B)
- : REC (DECK B)
- : CD
- : MD/VIDEO
- : PHONO

For printed wiring boards.
Note:

- : parts extracted from the component side.
- ○ : Through hole.
- △ : internal component.
- : Pattern from the side which enables seeing.

- Indication of transistor.



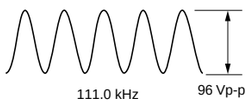
• Waveform

MAIN BOARD

① IC103 ㉒

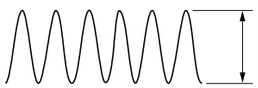
⑤ L809 ⑤

⑥ L809 ⑥



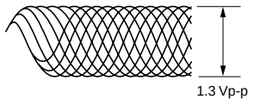
FRONT BOARD

② IC601 ⑯



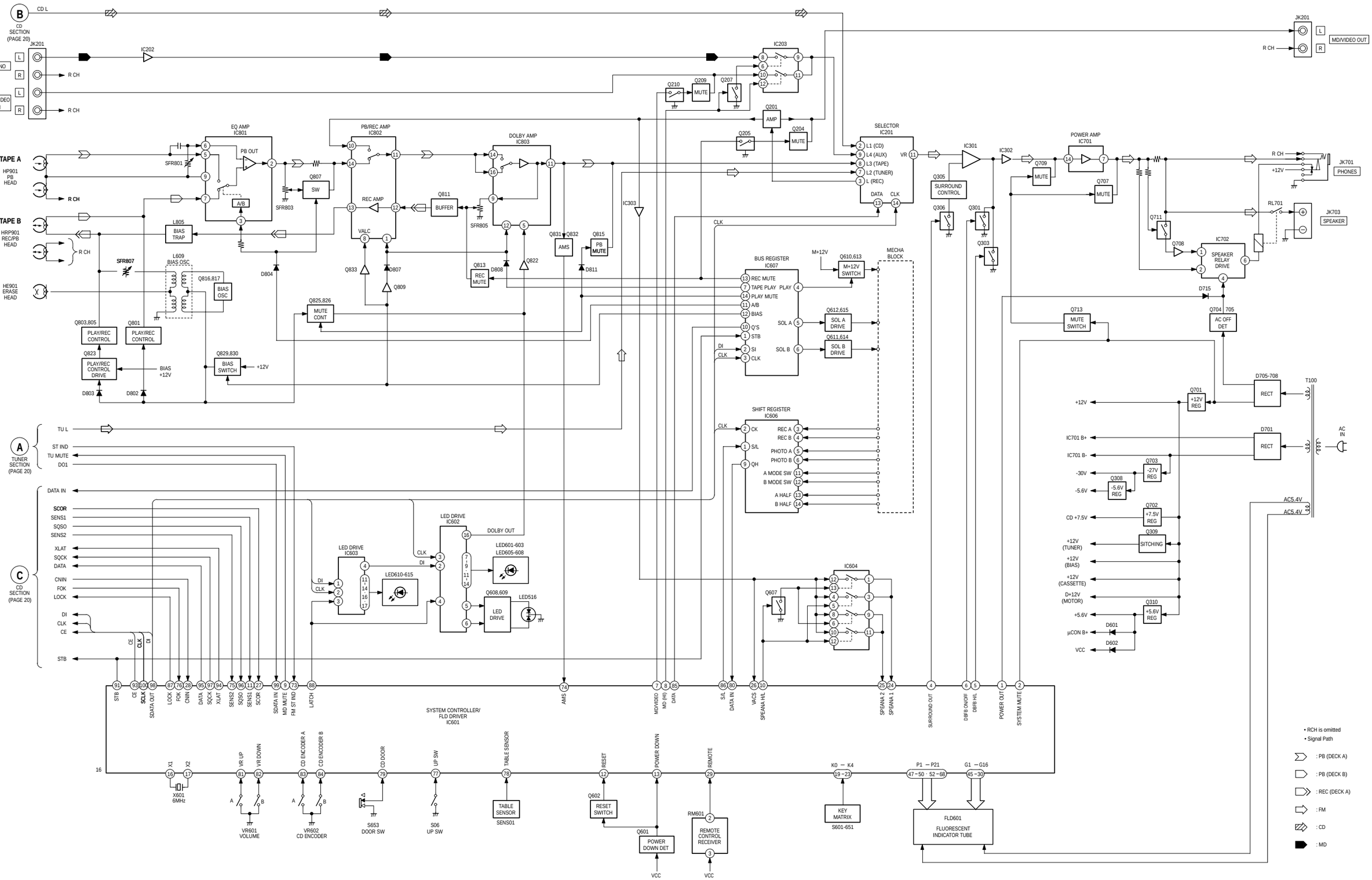
CD DECODE BOARD

③ IC01 ㉝

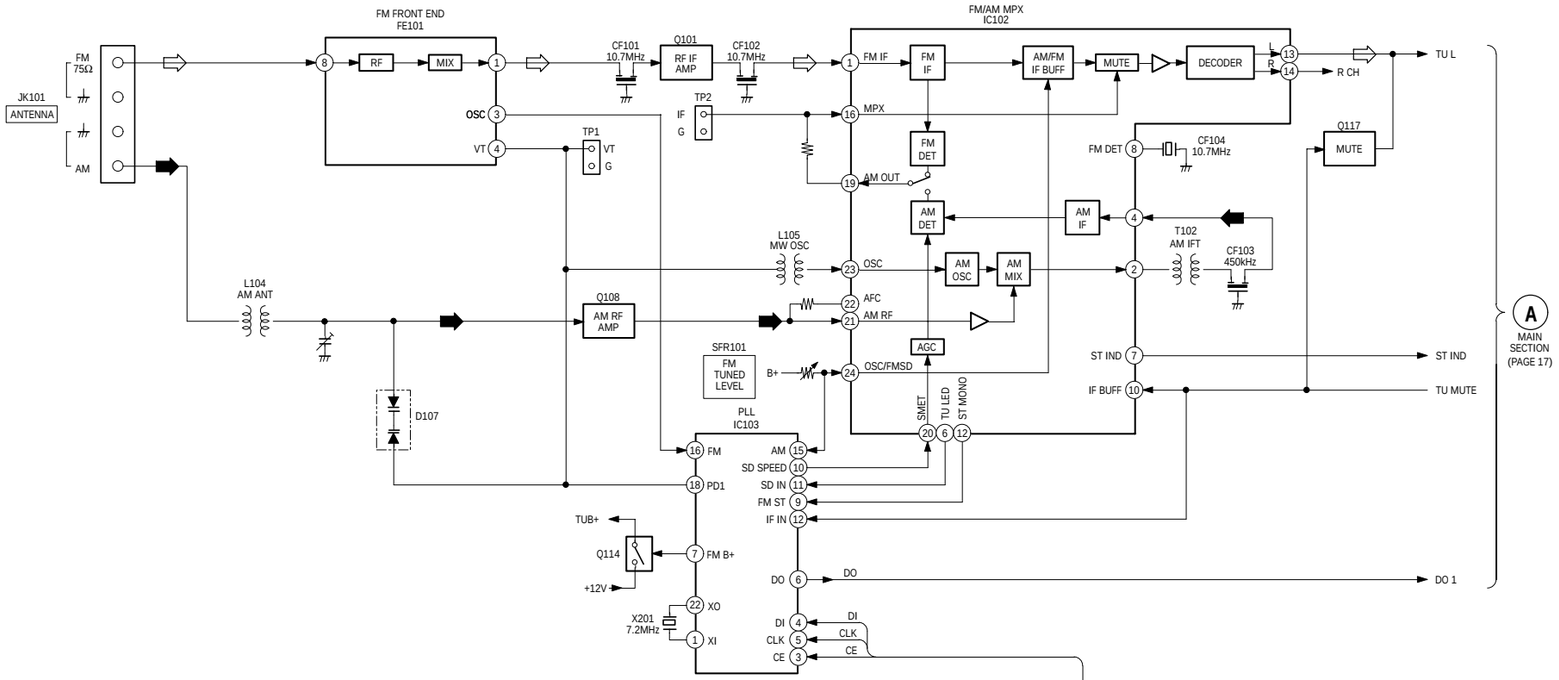


④ IC02 ㉑

5-2. BLOCK DIAGRAM
MAIN SECTION



TUNER/CD SECTION



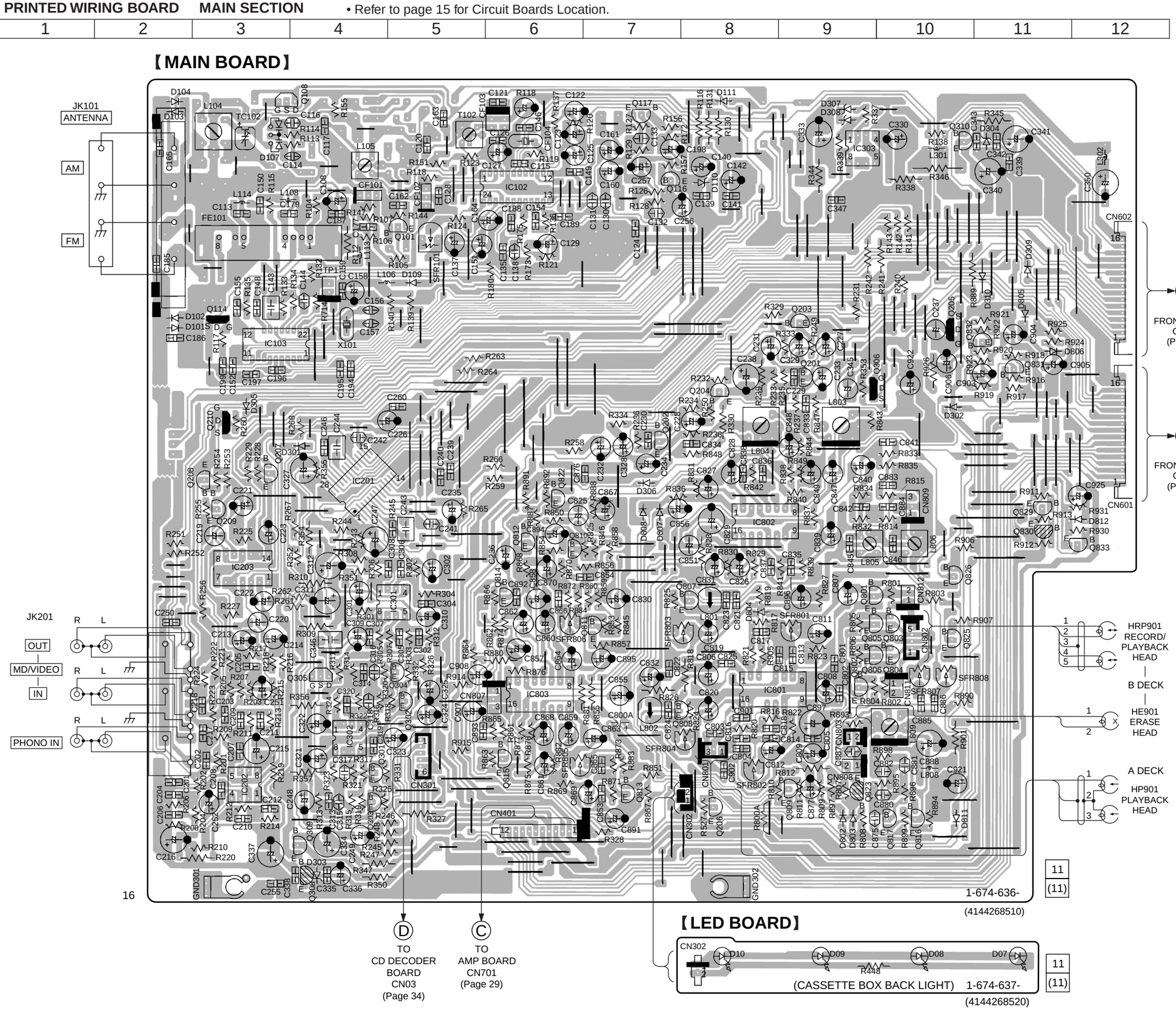
5-3. PRINTED WIRING BOARD MAIN SECTION

• Refer to page 15 for Circuit Boards Location.

• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D07	J-11	Q116	B-7
D08	J-10	Q117	A-7
D09	J-9	Q201	D-9
D10	J-8	Q202	E-7
D101	C-2	Q203	C-9
D102	C-2	Q204	D-8
D103	A-2	Q205	C-10
D104	A-2	Q206	H-8
D107	B-3	Q207	E-3
D109	C-5	Q208	E-3
D110	B-8	Q209	E-3
D111	A-8	Q210	D-3
D301	E-4	Q301	H-4
D302	D-10	Q302	G-5
D303	I-4	Q303	H-4
D304	B-11	Q304	G-5
D305	D-3	Q305	G-4
D306	E-7	Q306	D-10
D307	A-9	Q308	I-4
D308	A-9	Q309	I-4
D309	C-11	Q310	A-10
D310	C-11	Q801	F-10
D802	I-9	Q802	G-9
D803	I-9	Q803	G-10
D804	F-8	Q804	G-10
D805	C-11	Q805	G-10
D806	D-11	Q806	G-10
D807	E-7	Q807	F-8
D808	E-7	Q808	G-7
D811	I-10	Q809	H-9
D812	F-12	Q810	F-6
		Q811	G-7
IC102	B-6	Q812	F-6
IC103	D-3	Q813	H-7
IC201	E-4	Q814	F-6
IC202	H-3	Q815	H-6
IC203	F-3	Q816	I-10
IC301	F-4	Q817	I-10
IC302	H-4	Q822	E-6
IC303	B-9	Q825	G-10
IC801	G-8	Q826	F-10
IC802	F-8	Q829	E-11
IC803	G-6	Q830	E-11
		Q831	D-11
Q101	B-5	Q832	D-11
Q108	A-3	Q833	F-12
Q114	C-3		

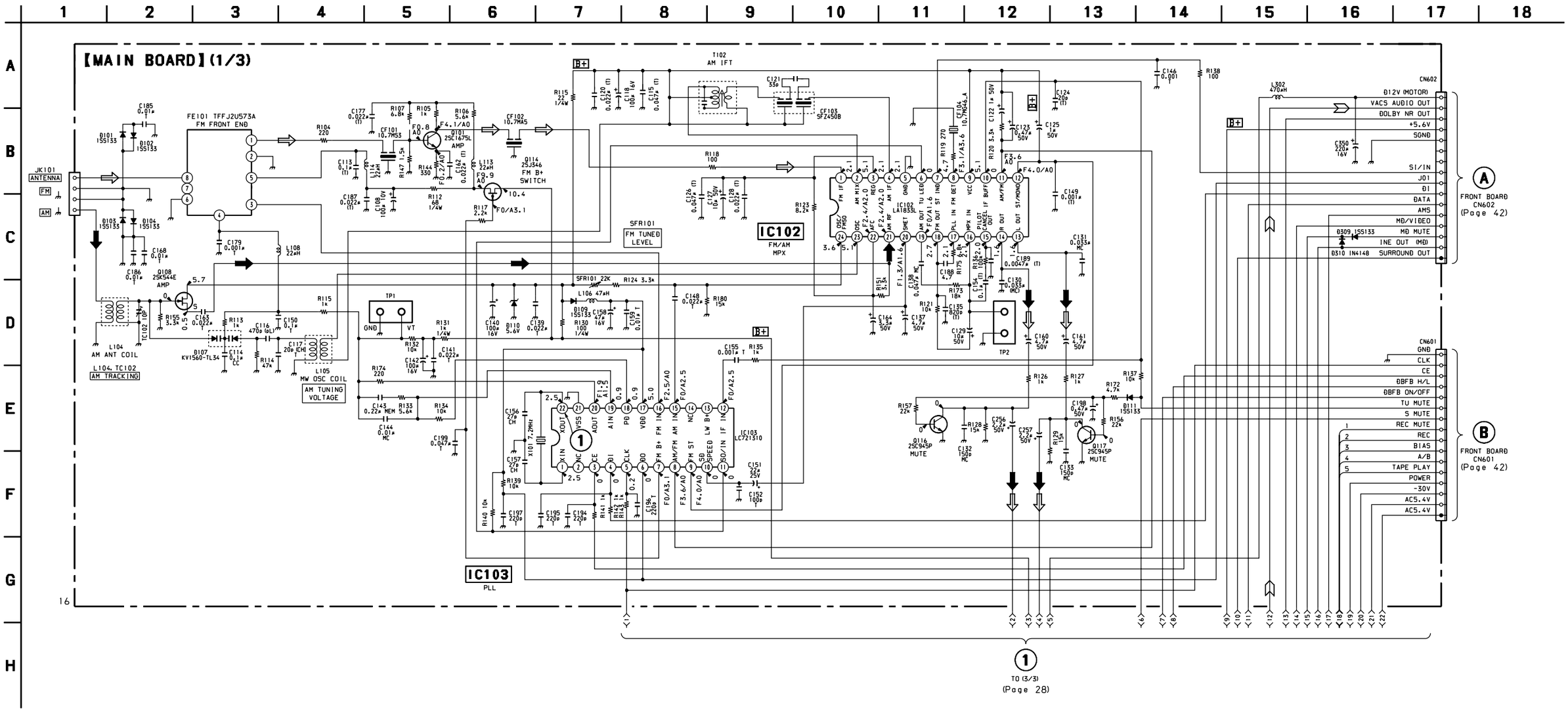
【MAIN BOARD】



【LED BOARD】

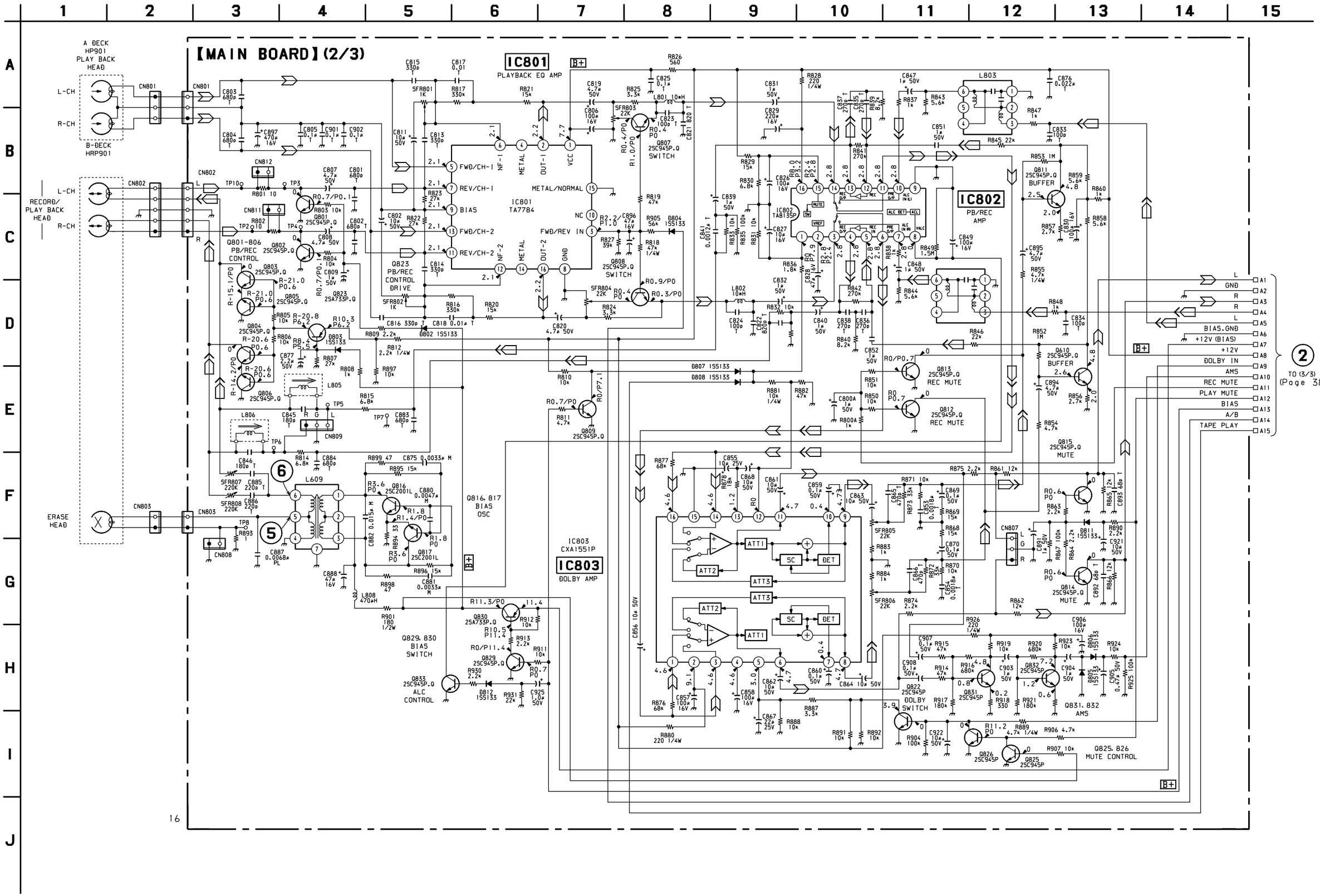
5-4. SCHEMATIC DIAGRAM MAIN (1/3) SECTION

• Refer to page 16 for Waveform. • Refer to page 45 for IC Block Diagrams.



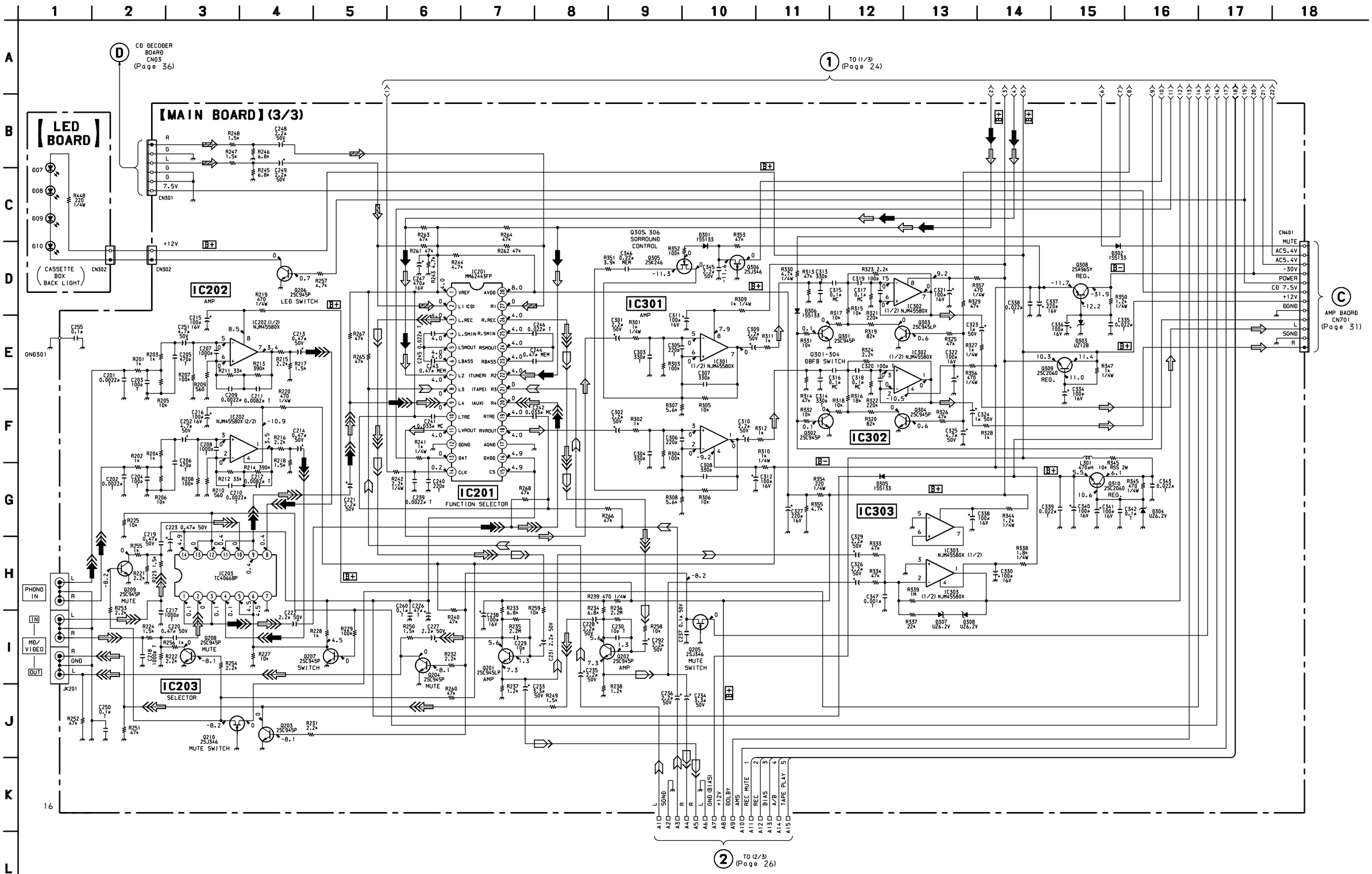
5-5. SCHEMATIC DIAGRAM MAIN (2/3) SECTION

• Refer to page 16 for Waveform. • Refer to page 21 for Printed Wiring Board.


【MAIN BOARD】(2/3)
IC801
PLAYBACK EQ AMP
IC802
PB/REC AMP
IC803
DOLBY AMP
IC801 TA7784
IC802 TA8135P
IC803 CXA1551P
A DECK HP901 PLAY BACK HEAD
B-DECK HRP901
RECORD/ PLAY BACK HEAD
ERASE HEAD
CN801
CN802
CN803
CN807
CN808
CN809
CN811
CN812
L-CH
R-CH
FWD/CH-1
REV/CH-1
BIAS
FWD/CH-2
REV/CH-2
METAL/NORMAL
FWD/REV IN
Q807 2SC945P.Q SWITCH
Q808 2SC945P.Q SWITCH
Q823 PB/REC CONTROL DRIVE
Q801-806 PB/REC CONTROL
Q816 2SC2001L
Q817 2SC2001L
Q829 2SA733P.Q BIAS SWITCH
Q830 2SA733P.Q
Q833 2SC945P.Q ALC CONTROL
Q809 2SC945P.Q
Q810 2SC945P.Q BUFFER
Q811 2SC945P.Q BUFFER
Q813 2SC945P.Q REC MUTE
Q812 2SC945P.Q REC MUTE
Q814 2SC945P.Q MUTE
Q815 2SC945P.Q MUTE
Q822 2SC945P DOLBY SWITCH
Q831 2SC945P
Q832 2SC945P
Q831. 832 AMS
Q825. 826 MUTE CONTROL
Q826 2SC945P
Q825 2SC945P
Q803 2SC945P.Q
Q804 2SC945P.Q
Q805 2SC945P.Q
Q806 2SC945P.Q
Q802 2SC945P.Q
Q801 2SC945P.Q
Q812 2SC945P.Q
Q823 2SA733P.Q
Q829 2SC945P.Q
Q830 2SA733P.Q
D802 1SS133
D804 1SS133
D807 1SS133
D808 1SS133
D812 1SS133
D805 1SS133
D806 1SS133
L801 10mH
L802 10mH
L803
L805
L806
L808 470μH
L609
SFR801 1K
SFR802 1K
SFR803 22K
SFR804 22K
SFR805 22K
SFR806 22K
SFR807 220K
SFR808 220K
B+
TO (3/3) (Page 38)
L
GND
R
R
L
BIAS.GND
+12V (BIAS)
+12V
DOLBY IN
AMS
REC MUTE
PLAY MUTE
BIAS
A/B
TAPE PLAY
Q.4/P0
R1.0/P0
R0.7/P0.1
R-21.0 P0.6
R-15.1/P0
R-20.8 P6.2
R10.3 P6.2
R-20.6 P0.6
R-14.2/P0
R0.7/P0.7
R0/P7.1
R0.7/P0
R0/P0.7
R0 P0.7
R0.6 P0
R0.9/P0
R0.4 P0
R1.8 P0
R1.4/P0
R3.6 P0
R11.3/P0
R10.5 P11.4
R0/P11.4
R0.7 P0
R2.2/P1.0
R2.4/P1.8
R2.8/P2.0
R2.9/P2.1
R3.0/P2.2
R2.8/P2.4
R2.8/P2.6
R2.8/P2.8
R2.8/P2.9
R3.0/P3.0
R3.2/P3.1
R3.2/P3.2
R3.2/P3.3
R3.2/P3.4
R3.2/P3.5
R3.2/P3.6
R3.2/P3.7
R3.2/P3.8
R3.2/P3.9
R4.0/P4.0
R4.2/P4.2
R4.2/P4.4
R4.2/P4.6
R4.2/P4.8
R4.2/P5.0
R4.2/P5.2
R4.2/P5.4
R4.2/P5.6
R4.2/P5.8
R4.2/P6.0
R4.2/P6.2
R4.2/P6.4
R4.2/P6.6
R4.2/P6.8
R4.2/P7.0
R4.2/P7.2
R4.2/P7.4
R4.2/P7.6
R4.2/P7.8
R4.2/P8.0
R4.2/P8.2
R4.2/P8.4
R4.2/P8.6
R4.2/P8.8
R4.2/P9.0
R4.2/P9.2
R4.2/P9.4
R4.2/P9.6
R4.2/P9.8
R4.2/P10.0
R4.2/P10.2
R4.2/P10.4
R4.2/P10.6
R4.2/P10.8
R4.2/P11.0
R4.2/P11.2
R4.2/P11.4
R4.2/P11.6
R4.2/P11.8
R4.2/P12.0

5-6. SCHEMATIC DIAGRAM MAIN (3/3) SECTION

• Refer to page 21 for Printed Wiring Board. • Refer to page 45 for IC Block Diagrams.

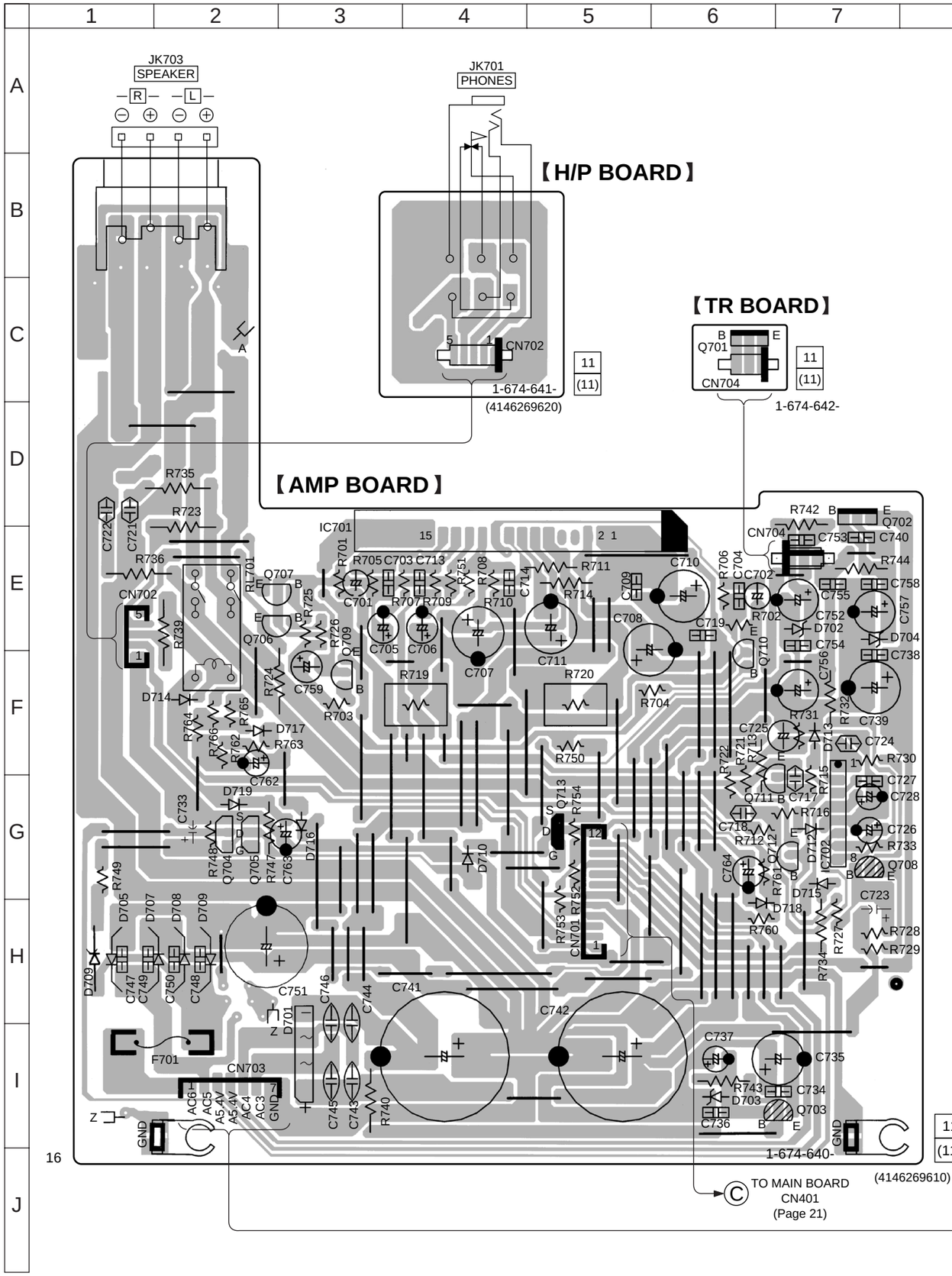


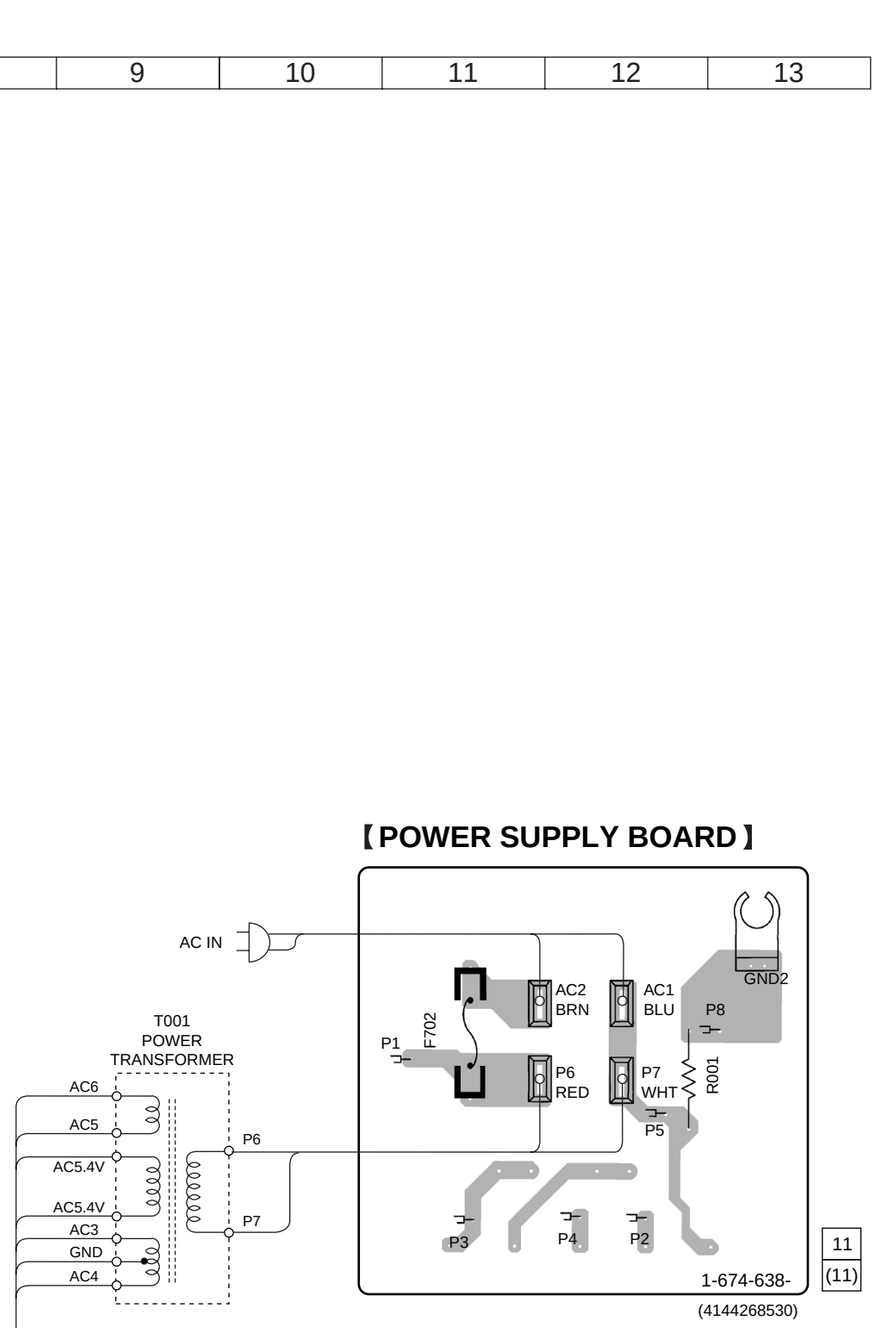
5-7. PRINTED WIRING BOARD AMP SECTION

• Refer to page 15 for Circuit Boards Location.

• **Semiconductor Location**

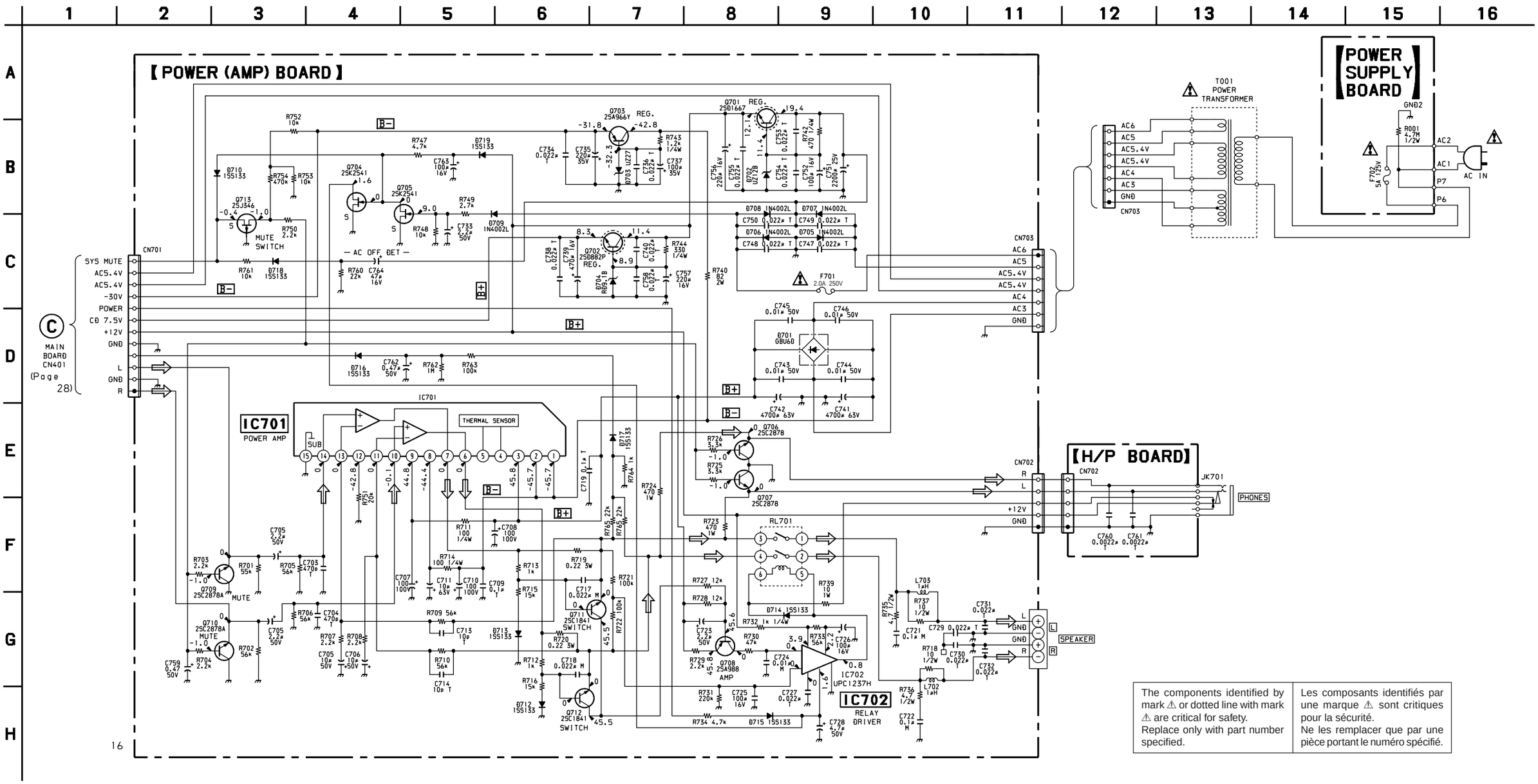
Ref. No.	Location
D701	H-3
D702	E-7
D703	I-6
D704	E-7
D705	H-1
D706	H-2
D707	H-1
D708	H-2
D709	H-1
D710	G-4
D712	G-7
D713	F-7
D714	F-2
D715	G-7
D716	G-3
D717	F-2
D718	H-6
D719	G-2
IC701	E-3
IC702	G-7
Q701	C-6
Q702	D-7
Q703	I-7
Q704	G-2
Q705	G-2
Q706	E-2
Q707	E-2
Q708	G-7
Q709	F-3
Q710	F-6
Q711	G-6
Q712	G-7
Q713	G-5





5-8. SCHEMATIC DIAGRAM AMP SECTION

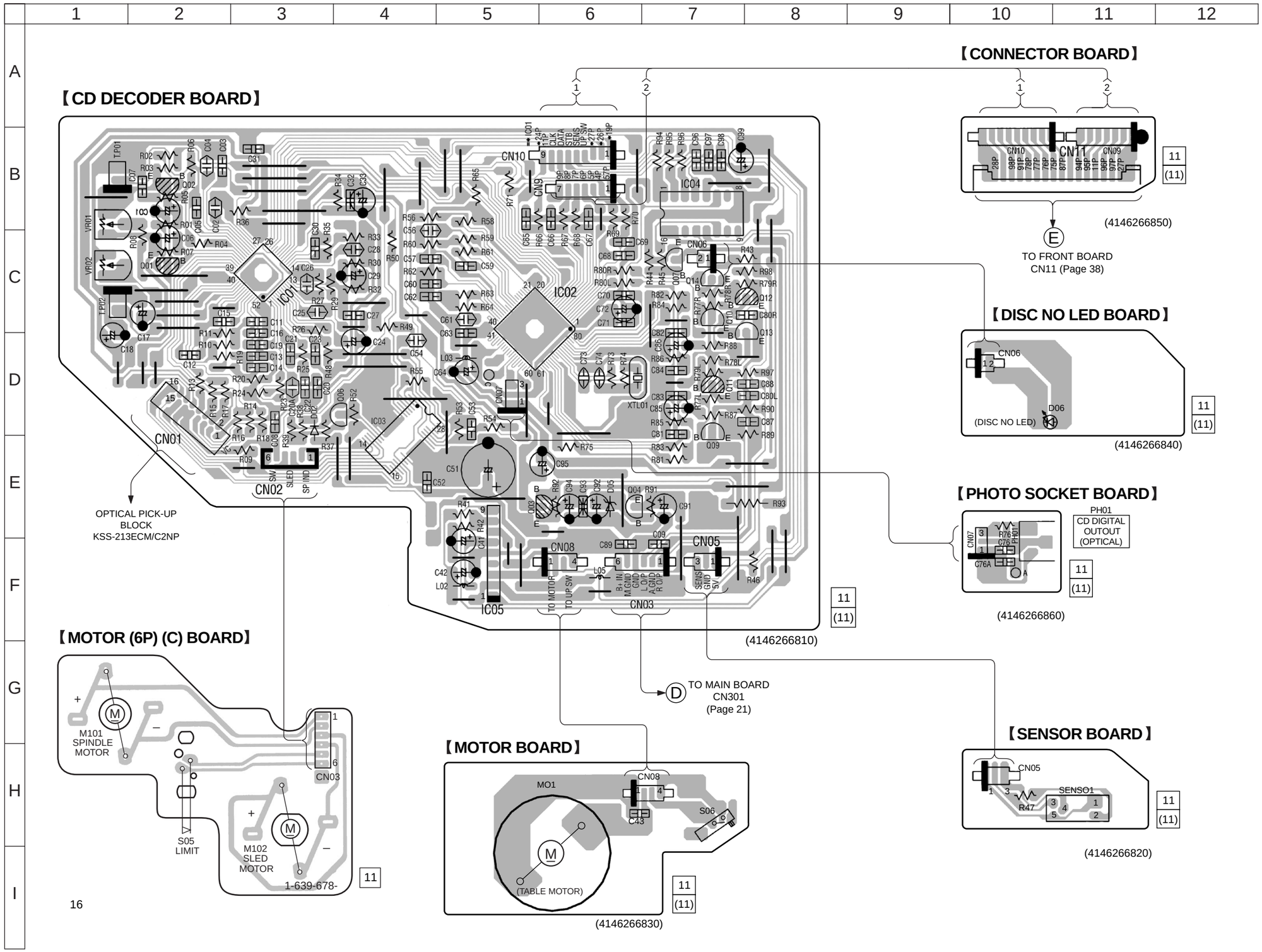
• Refer to page 46 for IC Block Diagram.



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5-9. PRINTED WIRING BOARD CD DECORD SECTION

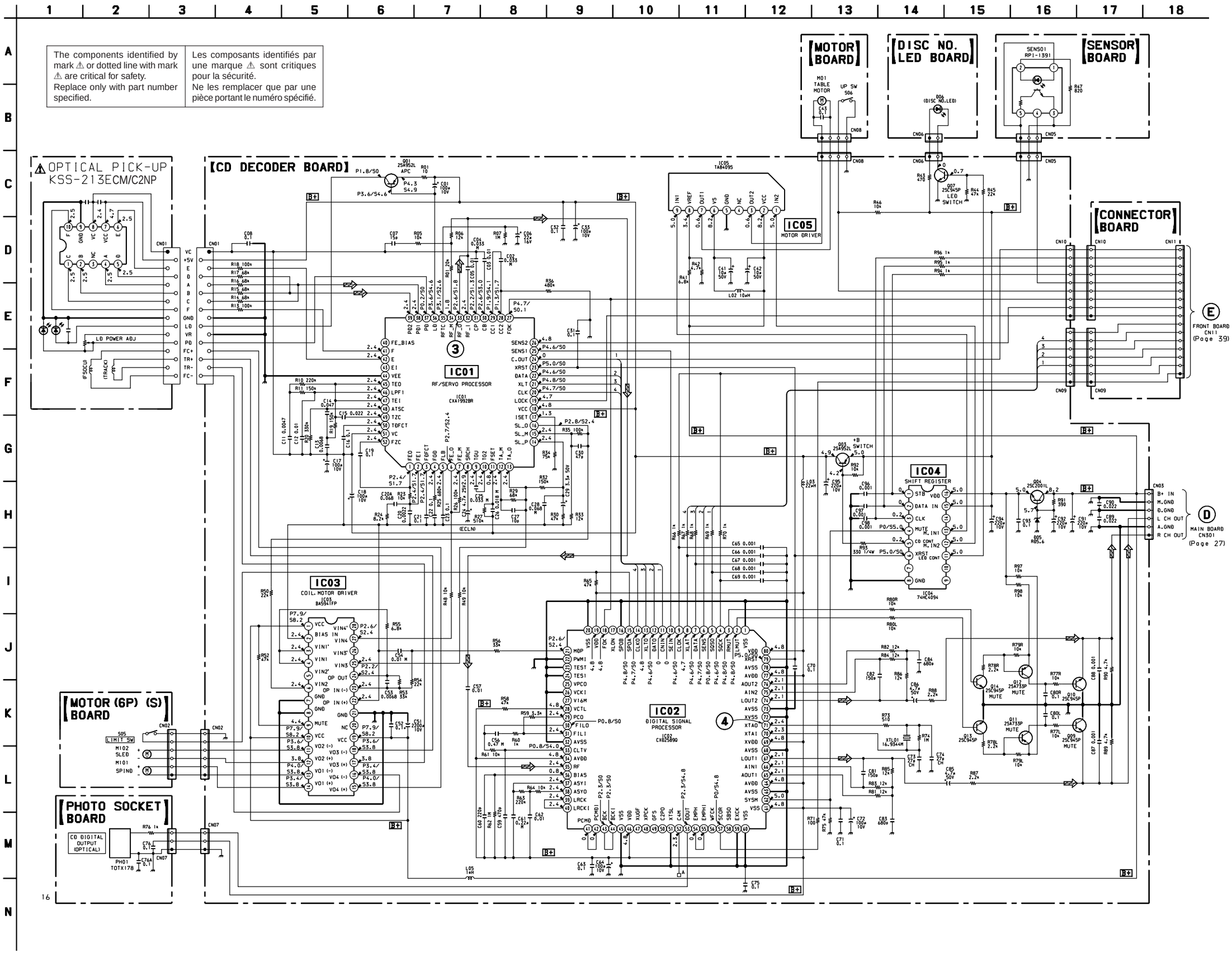
• Refer to page 15 for Circuit Boards Location.



5-10. SCHEMATIC DIAGRAM CD DECORD SECTION

• Refer to page 16 for Waveforms.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

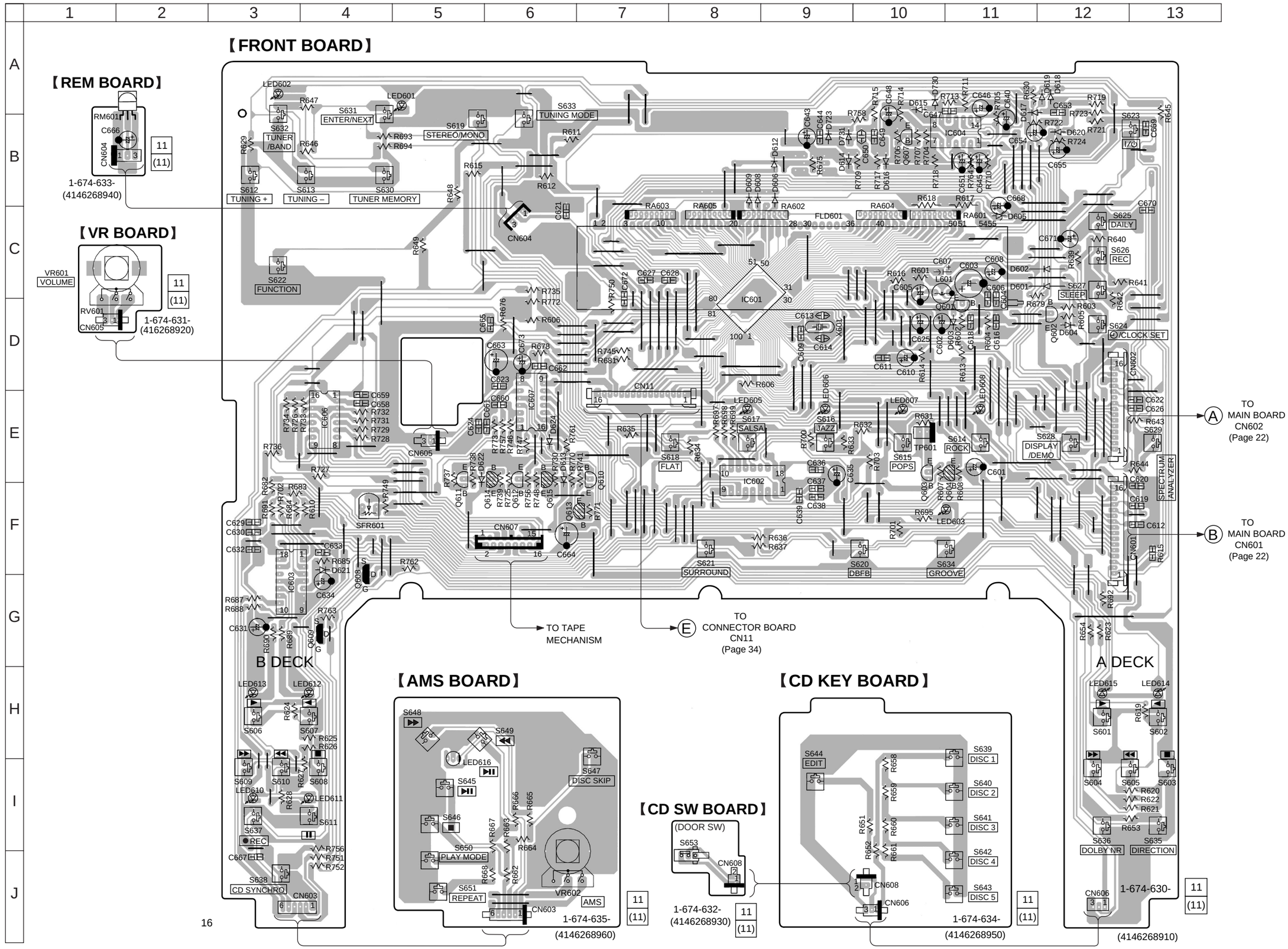


5-11. PRINTED WIRING BOARD FRONT SECTION

• Refer to page 15 for Circuit Boards Location.

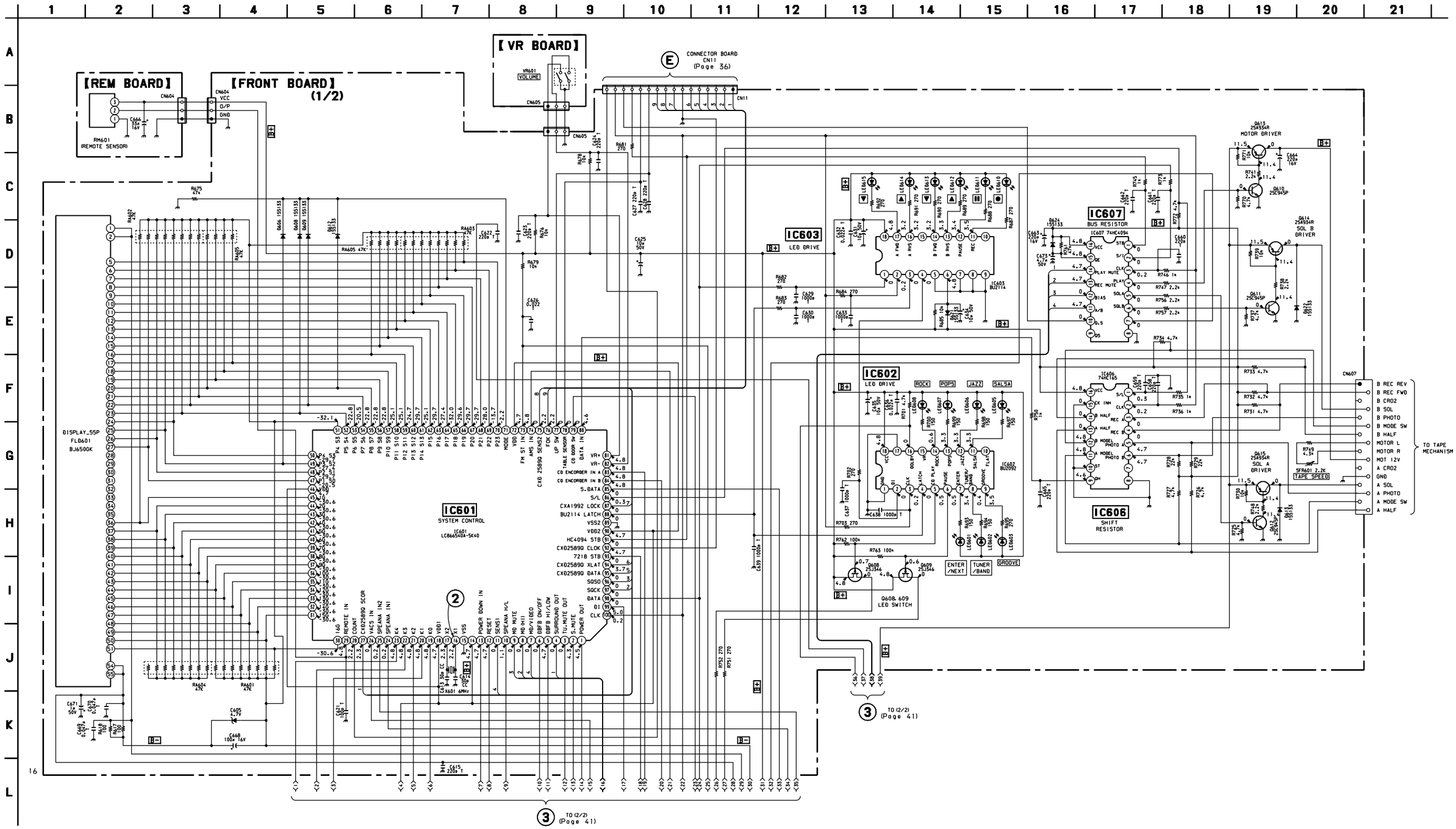
• **Semiconductor Location**

Ref. No.	Location
D601	C-11
D602	C-11
D603	D-10
D604	D-12
D605	C-11
D606	B-9
D608	B-8
D609	B-8
D612	B-9
D613	E-6
D614	B-9
D615	A-10
D616	B-10
D617	B-11
D618	A-12
D619	A-12
D620	B-12
D621	F-4
D622	E-5
D624	E-6
D723	B-9
D730	A-10
D731	B-9
LED601	A-5
LED602	A-3
LED603	F-10
LED605	E-8
LED606	E-9
LED607	E-10
LED608	E-11
LED610	I-3
LED611	I-4
LED612	H-4
LED613	H-3
LED614	H-12
LED615	H-12
LED616	I-5
IC601	D-8
IC602	F-8
IC603	G-3
IC604	B-11
IC606	E-4
IC607	E-6
Q601	D-11
Q602	D-12
Q603	E-10
Q604	E-10
Q607	B-10
Q608	G-4
Q609	G-4
Q610	F-7
Q611	F-5
Q612	F-6
Q613	F-6
Q614	E-6
Q615	F-6



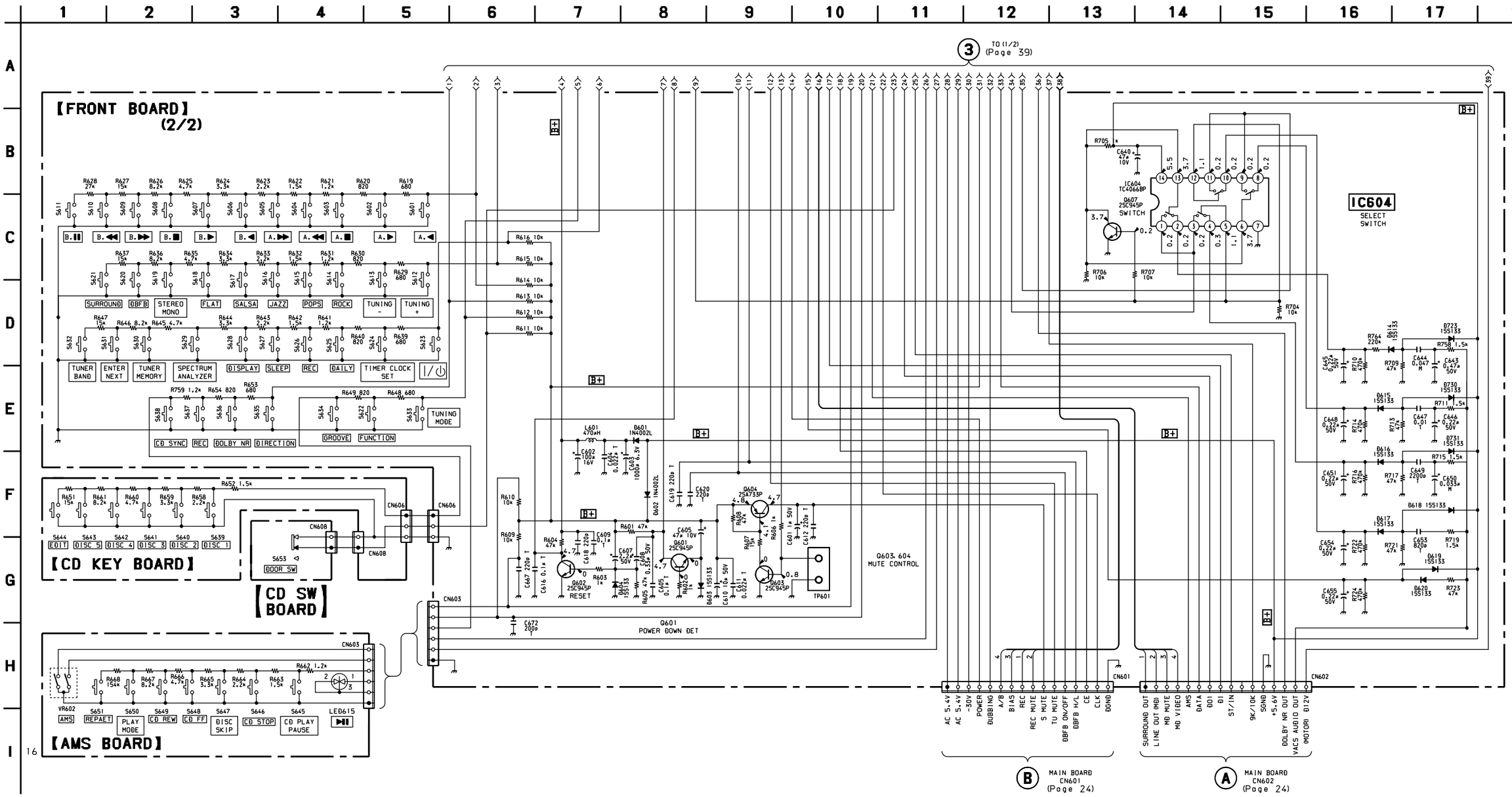
5-12. SCHEMATIC DIAGRAM FRONT (1/2) SECTION

• Refer to page 16 for Waveform. • Refer to page 43 for IC Pin Function Description. • Refer to page 46 for IC Block Diagrams.



5-13. SCHEMATIC DIAGRAM FRONT (2/2) SECTION

• Refer to page 37 for Printed Wiring Board.



5-14. IC PIN FUNCTION DESCRIPTION
IC601 LC866540A-5K40 SYSTEM CONTROL (FRONT board)

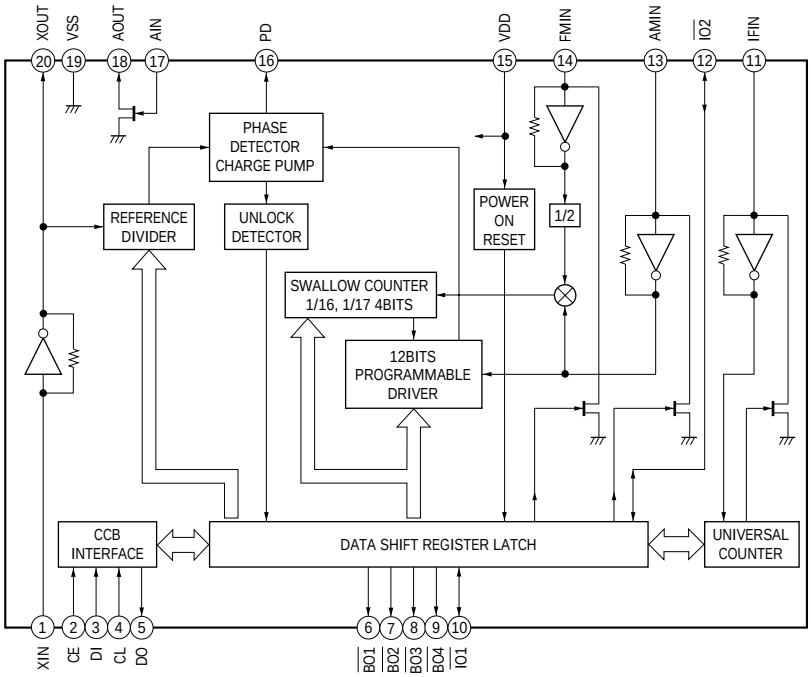
Pin No.	Pin Name	I/O	Description
1	POWER OUT	O	Power on/off output
2	S.MUT	O	System mute output (ON at H)
3	TU.MUT OUT	O	Tuner mute output (ON at H)
4	SURROUND OUT	O	Surround output (ON at H)
5	DBFB HI/LOW	O	DBFB normal output (ON at H)
6	DBFB ON/OFF	O	DBFB high output (ON at H)
7	MD/VIDEO	O	MD/VIDEO output
8	MD(HI)	O	MD(HI) output
9	MD MUTE	O	Function mute(Line out mute)
10	SPEANA H/L	O	Spectrum analyzer 1,2/3,4
11	SENS 1	I	CXD2589Q SCOR input
12	RESET	—	Reset
13	POWER DOWN IN	I	Power down in(AC on at H,AC off at H)
14	VDD	—	FLD VDD
15	VSS	—	Ground
16	X1	—	X'tal oscillator 6MHz
17	X2	—	X'tal oscillator 6MHz
18	VDD1	—	System VDD 1
19	K0	I	Key input 0
20	K1	I	Key input 1
21	K2	I	Key input 2
22	K3	I	Key input 3
23	K4	I	Key input 4
24	SPEANA IN 1	I	Spectrum analyzer 1
25	SPEANA IN 2	I	Spectrum analyzer 2
26	VACS IN	I	Vacs in
27	CXD2588Q SCOR	I	CXD2588Q SCOR input
28	COUNT	I	CXD2588Q COUNT input
29	REMOTE IN	I	Remote in
30	16G	O	FLD digital output 16
31	15G	O	FLD digital output 15
32	14G	O	FLD digital output 14
33	13G	O	FLD digital output 13
34	12G	O	FLD digital output 12
35	11G	O	FLD digital output 11
36	10G	O	FLD digital output 10
37	9G	O	FLD digital output 9
38	8G	O	FLD digital output 8
39	7G	O	FLD digital output 7
40	6G	O	FLD digital output 6
41	5G	O	FLD digital output 5
42	4G	O	FLD digital output 4
43	3G	O	FLD digital output 3
44	2G	O	FLD digital output 2
45	1G	O	FLD digital output 1
46	VDD	—	FLD VDD
47	P1 S0	O	FLD segment output 1
48	P2 S1	O	FLD segment output 2
49	P3 S2	O	FLD segment output 3
50	P4 S3	O	FLD segment output 4

Pin No.	Pin Name	I/O	Description
51	P4 S3	O	FLD segment output 4
52	P5 S4	O	FLD segment output 5
53	P6 S5	O	FLD segment output 6
54	P7 S6	O	FLD segment output 7
55	P8 S7	O	FLD segment output 8
56	P9 S8	O	FLD segment output 9
57	P10 S9	O	FLD segment output 10
58	P11 S10	O	FLD segment output 11
59	P12 S11	O	FLD segment output 12
60	P13 S12	O	FLD segment output 13
61	P14 S13	I	FLD segment output 14
68	P15-P21	I	FLD segment output 15-21
69	P22	I	FLD segment output 22
70	P23	I	FLD segment output 23
71	MODE	I	Destination selector switch input
72	VDD	—	VDD
73	FM ST IN	I	FM stereo indicator input
74	AMS IN	I	AMS input
75	CXD 2589Q SENS2	I	CXD 2589Q SENS input
76	FOK	I	CXD 2589Q FOK input
77	UP SW	I	Changer mechanism UP switch input
78	TABLE SENSOR	I	Table sensor switch input
79	CD DOOR SW	I	CD door switch input
80	DATA IN	I	HC 165 data in
81	VR+	I	VR encoder(+) input
82	VR-	I	VR encoder(-) input
83	CD ENCORDER IN A	I	CD encoder input A
84	CD ENCORDER IN B	I	CD encoder input B
85	S-DATA	O	M62433 S.DATA
86	S/L	O	HC165 S/L
87	CXA1992 LOCK	O	CXA1992 LOCK output
88	BU2114 LATCH	O	BU2114 LATCH output
89	VSS2	—	System Vss 2
90	VDD2	—	System VDD 2
91	HC4094 STB	O	HC4094 STB output
92	CDP 2589 CLOK	O	CDP 2589 clock output
93	7218 STB	O	7218 standby output
94	CXD2589Q XLAT	O	CXD2589Q XLAT output
95	CXD2589Q DATA	O	CXD2589Q DATA output
96	SQSO	O	SQSO output
97	SQCK	O	SQCK output
98	DATA	O	Serial data output
99	DI	I	Serial data input
100	CLK	O	Clock output

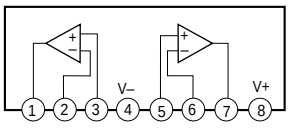
5-15. IC BLOCK DIAGRAMS

MAIN BOARD

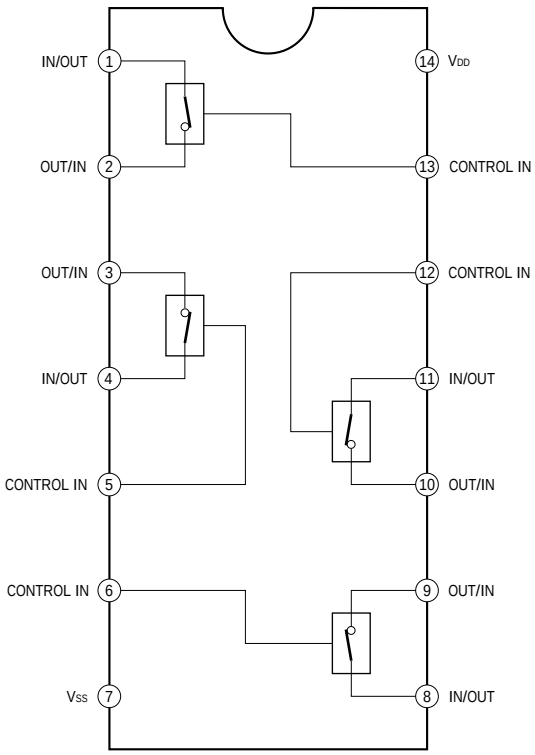
IC103 LC72131M



IC202 M5218AL

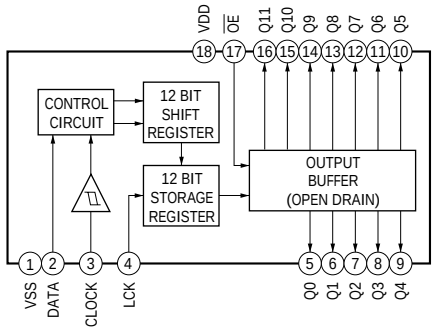


IC203 MC14066BF

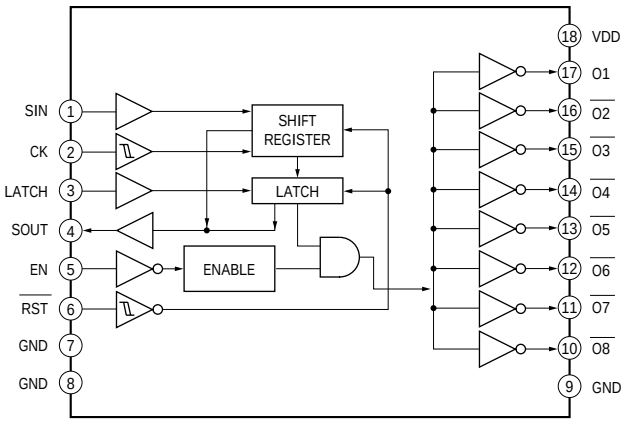


FRONT BOARD

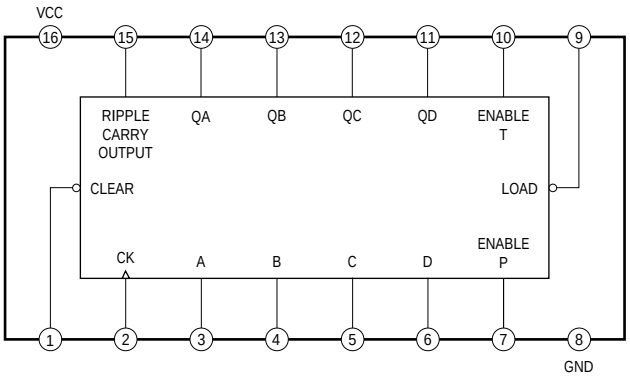
IC602 BU2092F-E2



IC603 BU2114F

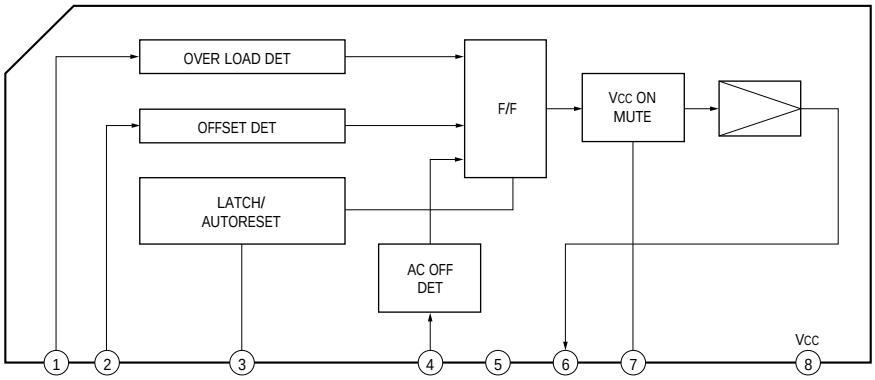


IC606 SN74HC161



AMP BOARD

IC702 MPC1237HA



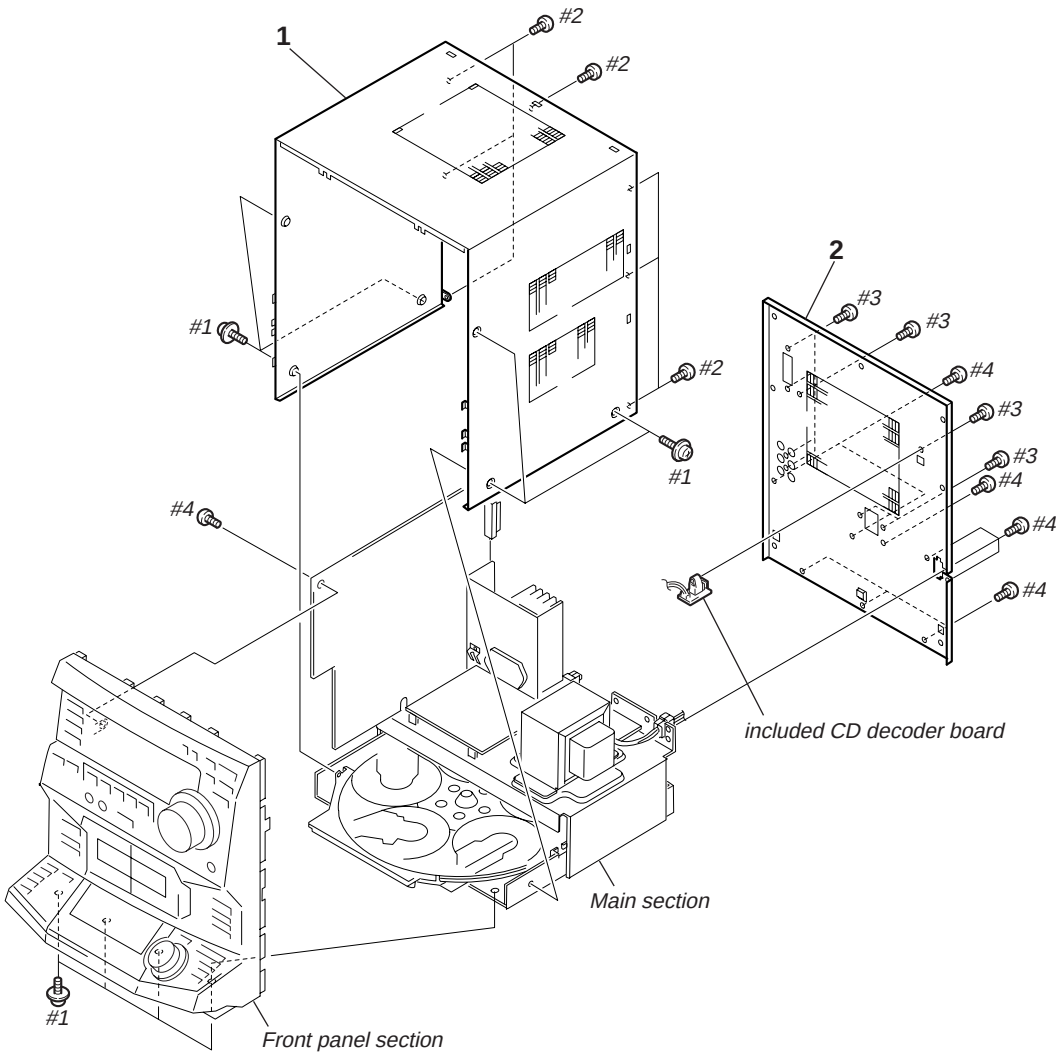
SECTION 6
EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

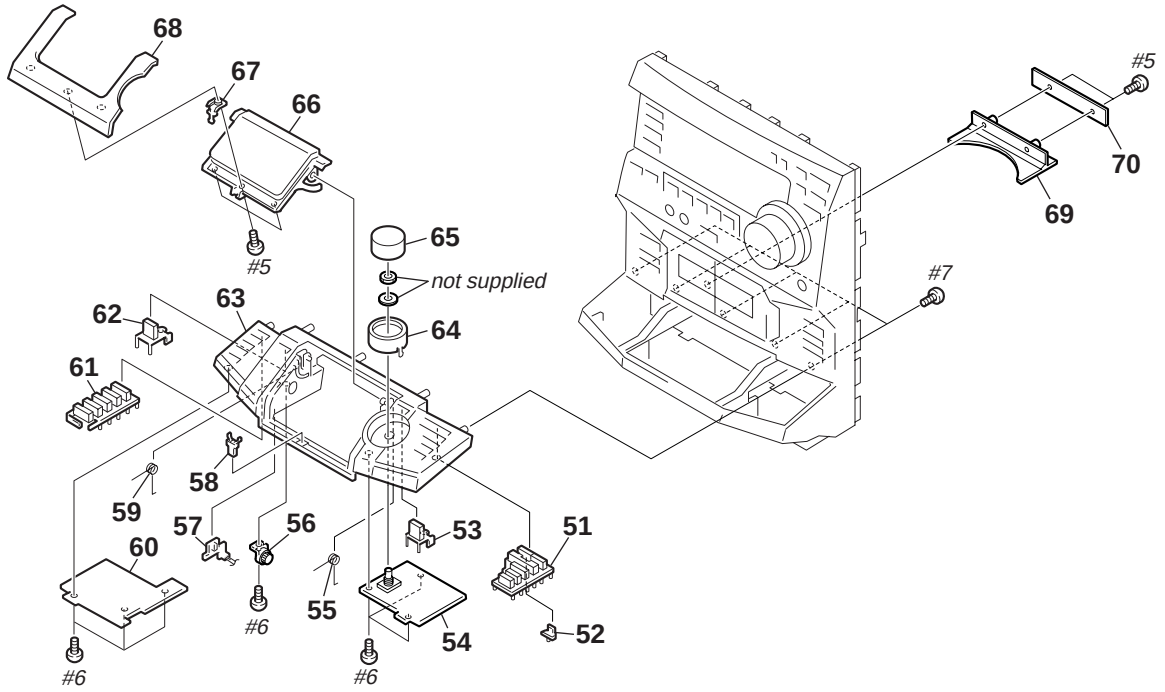
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. TOP COVER SECTION



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	4-221-012-01	COVER, TOP		2	4-221-013-01	PANEL, REAR	

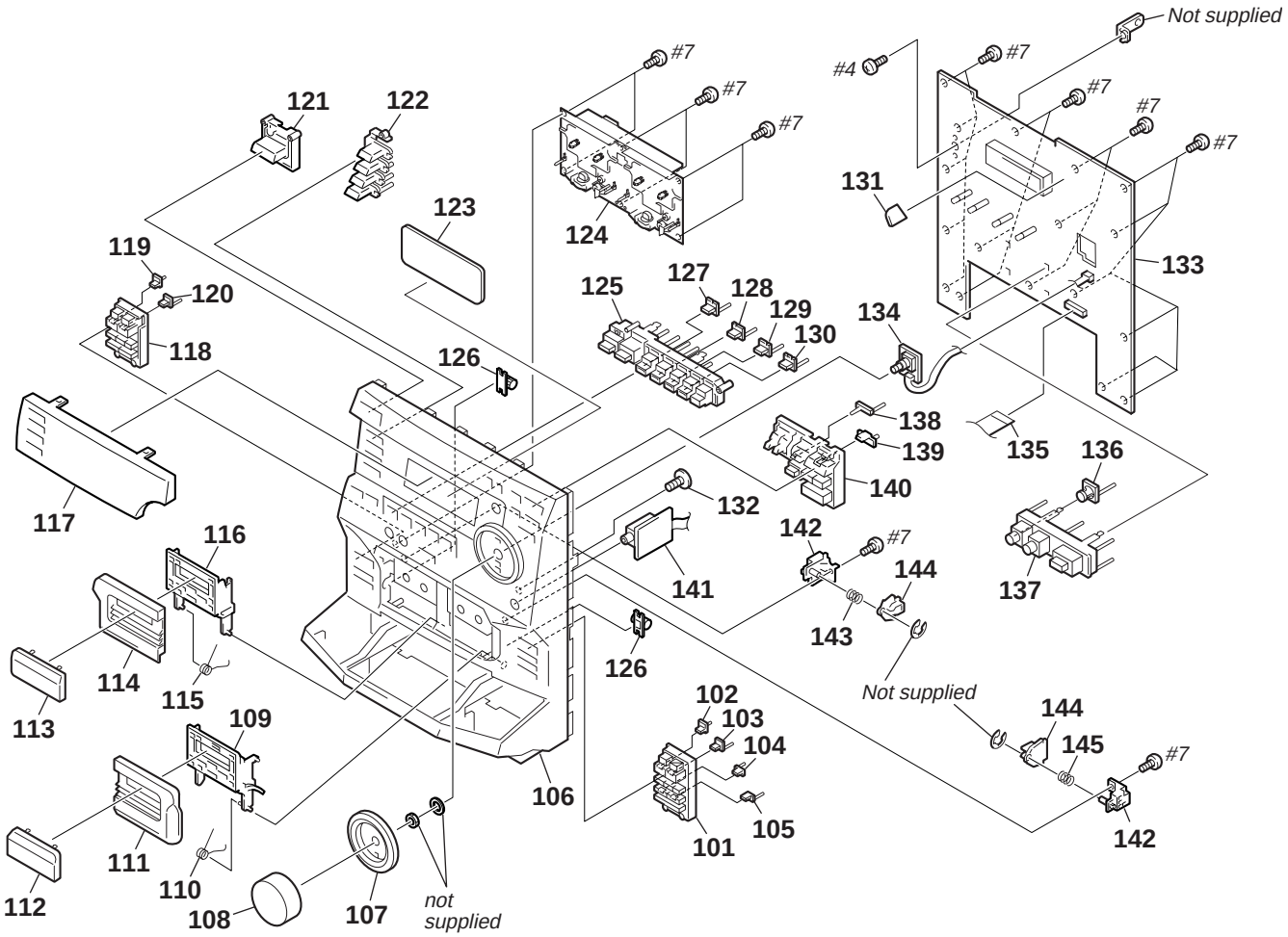
6-2. CD DOOR SECTION



Ref. No.	Part No.	Description	Remarks
51	4-221-007-01	BUTTON, CD PLAY	
52	4-221-008-01	LENS, CD PLAY BUTTON	
53	4-221-006-01	BUTTON, CD SKIP	
54	1-674-635-11	AMS BOARD	
55	4-221-011-01	SPRING (R), CD DOOR	
56	4-211-920-01	DAMPER (PG-5), GEAR	
57	1-674-632-11	CD SW BOARD	
58	4-221-128-01	LOCK	
59	4-221-010-01	SPRING (L), CD DOOR	
60	1-674-634-11	CD KEY BOARD	

Ref. No.	Part No.	Description	Remarks
61	4-221-004-01	BUTTON, CD DISC	
62	4-221-005-01	BUTTON, CD EDIT	
63	4-220-995-01	PANEL, CD FRONT	
64	4-221-002-01	RING, AMS	
65	4-221-003-01	KNOB, AMS	
66	4-220-996-01	WINDOW, CD DOOR	
67	4-221-009-01	HOOK, CD DOOR	
68	4-221-001-01	DOOR, CD	
69	4-211-914-01	LENS, CD DOOR	
70	1-674-637-11	LED BOARD	

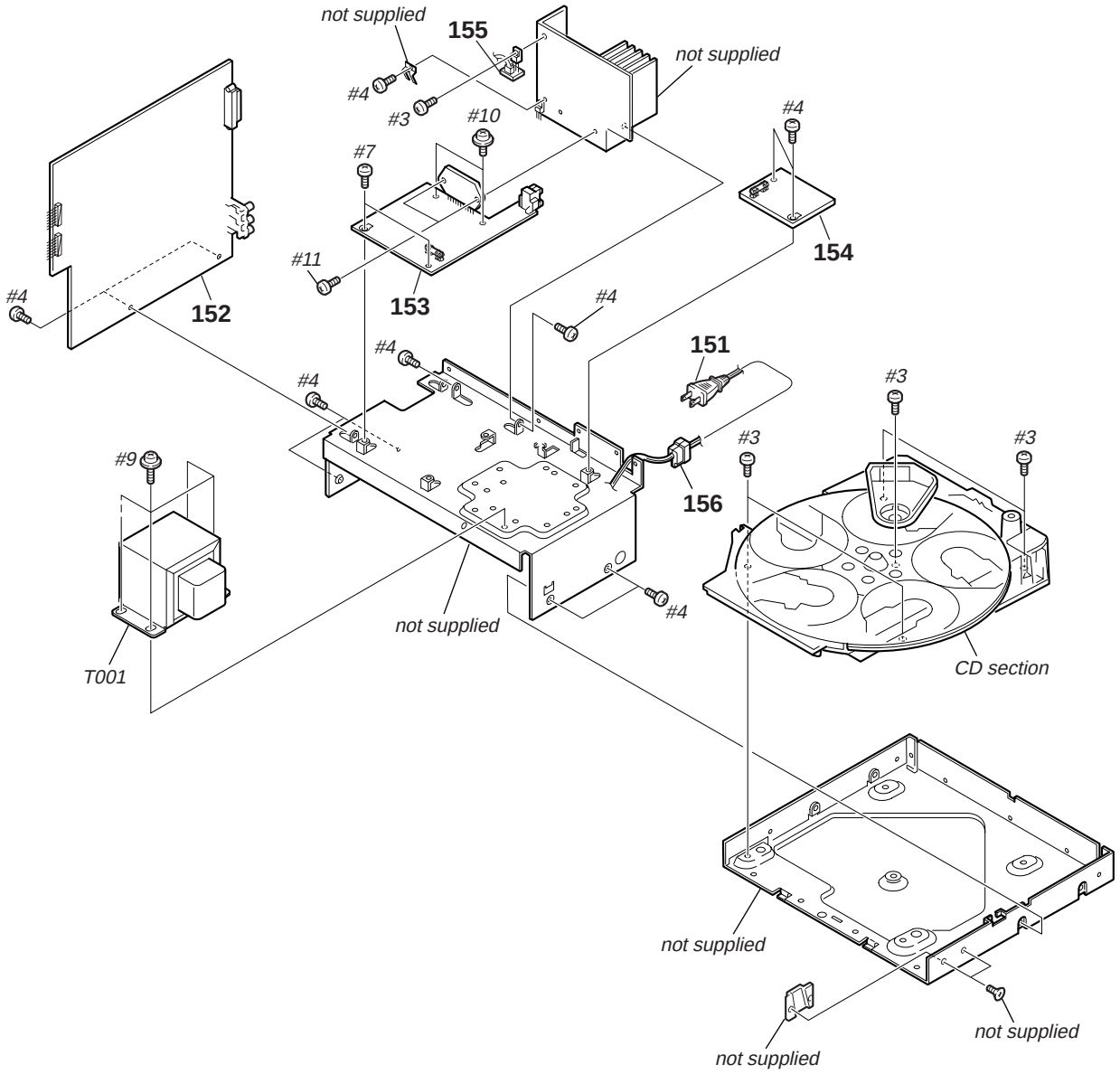
6-3. PANEL SECTION



Ref. No.	Part No.	Description	Remarks
101	4-221-028-01	BUTTON (R), CASS	
102	4-221-034-01	LENS (A), CASS BUTTON (R)	
103	4-221-035-01	LENS (B), CASS BUTTON (R)	
104	4-221-036-01	LENS (C), CASS BUTTON (R)	
105	4-221-037-01	LENS (D), CASS BUTTON (R)	
106	4-221-014-01	PANEL, FRONT	
107	4-221-000-01	RING, VR	
108	4-221-026-01	KNOB, VOLUME	
109	4-221-016-01	HOLDER (R), CASS DOOR	
110	4-220-989-01	SPRING (R), CASS	
111	4-221-020-01	DOOR (R), CASS	
112	4-220-998-01	WINDOW (R), CASS DOOR	
113	4-220-997-01	WINDOW (L), CASS DOOR	
114	4-221-017-01	DOOR (L), CASS	
115	4-220-988-01	SPRING (L), CASS	
116	4-221-015-01	HOLDER (L), CASS DOOR	
117	4-220-999-01	WINDOW, DISPLAY	
118	4-221-027-01	BUTTON (L), CASS	
119	4-221-033-01	LENS (B), CASS BUTTON (L)	
120	4-221-032-01	LENS (A), CASS BUTTON (L)	
121	4-221-021-01	BUTTON, POWER	
122	4-221-023-01	BUTTON, CLOCK	

Ref. No.	Part No.	Description	Remarks
123	4-220-987-01	PLATE, DISPLAY	
124	1-772-164-11	DECK, MECH	
125	4-221-024-01	BUTTON, MODE	
126	4-220-992-01	DAMPER (GRAY), GEAR	
127	4-221-038-01	LENS, ROCK BUTTON	
128	4-221-039-01	LENS, POP BUTTON	
129	4-220-985-01	LENS, JAZZ BUTTON	
130	4-220-986-01	LENS, SALSA BUTTON	
131	1-674-633-11	REM BOARD	
132	3-306-734-01	SCREW (M3 × 12), TAPPING	
133	A-4426-110-A	FRONT BOARD, COMPLETE	
134	1-674-633-11	VR BOARD	
135	1-783-579-11	WIRE (FLAT TYPE) (16 CORE)	
136	4-221-031-01	LENS, GROOVE BUTTON	
137	4-221-025-01	BUTTON, SURROUND	
138	4-221-030-01	LENS, ENTER BUTTON	
139	4-221-029-01	LENS, TUNER BUTTON	
140	4-221-022-01	BUTTON, TUNER	
141	1-674-641-11	H/P BOARD	
142	4-220-990-01	HOLDER, EJECT	
143	4-220-994-01	SPRING (R), PUSHING	
144	4-220-991-01	LEVER, EJECT	
145	4-220-993-01	SPRING (L), PUSHING	

6-4. MAIN SECTION



Ref. No.	Part No.	Description	Remarks
⚠151	1-783-531-51	CORD, POWER	
152	A-4426-118-A	MAIN BOARD, COMPLETE	
153	A-4426-123-A	POWER (AMP) BOARD, COMPLETE	
154	1-674-638-11	POWER SUPPLY BOARD	

Ref. No.	Part No.	Description	Remarks
155	1-674-642-11	TR BOARD	
* 156	3-703-244-00	BUSHING (2104), CORD	
⚠T001	1-433-921-11	TRANSFORMER, POWER	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 7
ELECTRICAL PARTS LIST

AMS **CD KEY** **FRONT**

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: µH
- Abbreviation
  CND : Canadian

When indicating parts by reference number, please include the board name.

- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remarks
	1-674-635-11	AMS BOARD			
		*********			
		< LED >			
LED616	8-719-304-83	LED SEL2410G (CD, ►II)			
		< RESISTOR >			
R663	1-247-835-11	CARBON	1.5K	5%	1/4W
R664	1-247-839-11	CARBON	2.2K	5%	1/4W
R665	1-247-843-11	CARBON	3.3K	5%	1/4W
R666	1-247-847-11	CARBON	4.7K	5%	1/4W
R667	1-249-428-11	CARBON	8.2K	5%	1/4W
R668	1-249-431-11	CARBON	15K	5%	1/4W
		< SWITCH >			
S645	1-762-875-11	SWITCH, KEYBOARD (CD, ►II)			
S646	1-762-875-11	SWITCH, KEYBOARD (CD, ■)			
S647	1-762-875-11	SWITCH, KEYBOARD (DISK SKIP)			
S648	1-762-875-11	SWITCH, KEYBOARD (CD, ►►)			
S649	1-762-875-11	SWITCH, KEYBOARD (CD, ◄◄)			
S650	1-762-875-11	SWITCH, KEYBOARD (PLAY MODE)			
S651	1-762-875-11	SWITCH, KEYBOARD (REPEAT)			
		< VARIABLE RESISTOR >			
VR602	1-475-841-11	ENCORDER (AMS)			
**********					
	1-674-634-11	CD KEY BOARD			
		**********			
		< RESISTOR >			
R651	1-249-431-11	CARBON	15K	5%	1/4W
R652	1-247-835-11	CARBON	1.5K	5%	1/4W
R658	1-247-839-11	CARBON	2.2K	5%	1/4W
R659	1-247-843-11	CARBON	3.3K	5%	1/4W
R660	1-247-847-11	CARBON	4.7K	5%	1/4W
R661	1-249-428-11	CARBON	8.2K	5%	1/4W F
		< SWITCH >			
S639	1-762-875-11	SWITCH, KEYBOARD (DISC 1)			
S640	1-762-875-11	SWITCH, KEYBOARD (DISC 2)			
S641	1-762-875-11	SWITCH, KEYBOARD (DISC 3)			
S642	1-762-875-11	SWITCH, KEYBOARD (DISC 4)			
S643	1-762-875-11	SWITCH, KEYBOARD (DISC 5)			
S644	1-762-875-11	SWITCH, KEYBOARD (EDIT)			
**********					

Ref. No.	Part No.	Description			Remarks
	A-4426-110-A	FRONT BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C601	1-126-960-11	ELECT	1uF	20%	50V
C602	1-126-933-11	ELECT	100uF	20%	16V
C603	1-126-916-11	ELECT	1000uF	20%	6.3V
C604	1-161-494-00	CERAMIC	0.022uF		25V
C605	1-104-664-11	ELECT	47uF	20%	10V
C606	1-164-159-11	CERAMIC	0.1uF		50V
C607	1-126-961-11	ELECT	2.2uF	20%	50V
C608	1-126-958-11	ELECT	0.33uF	20%	50V
C609	1-164-159-11	CERAMIC	0.1uF		50V
C610	1-126-964-11	ELECT	10uF	20%	50V
C611	1-161-494-00	CERAMIC	0.022uF		25V
C612	1-162-286-31	CERAMIC	220PF	10%	50V
C613	1-102-962-00	CERAMIC	30PF	5%	50V
C614	1-102-962-00	CERAMIC	30PF	5%	50V
C615	1-162-286-31	CERAMIC	220PF	10%	50V
C616	1-164-159-11	CERAMIC	0.1uF		50V
C618	1-162-286-31	CERAMIC	220PF	10%	50V
C619	1-162-286-31	CERAMIC	220PF	10%	50V
C620	1-162-286-31	CERAMIC	220PF	10%	50V
C621	1-162-282-31	CERAMIC	100PF	10%	50V
C622	1-162-286-31	CERAMIC	220PF	10%	50V
C623	1-162-286-31	CERAMIC	220PF	10%	50V
C624	1-162-286-31	CERAMIC	220PF	10%	50V
C625	1-126-964-11	ELECT	10uF	20%	50V
C626	1-161-494-00	CERAMIC	0.022uF		25V
C627	1-162-286-31	CERAMIC	220PF	10%	50V
C628	1-162-286-31	CERAMIC	220PF	10%	50V
C629	1-162-294-31	CERAMIC	0.001uF	10%	50V
C630	1-162-294-31	CERAMIC	0.001uF	10%	50V
C631	1-126-964-11	ELECT	10uF	20%	50V
C632	1-161-494-00	CERAMIC	0.022uF		25V
C633	1-162-294-31	CERAMIC	0.001uF	10%	50V
C634	1-126-964-11	ELECT	10uF	20%	50V
C635	1-126-964-11	ELECT	10uF	20%	50V
C636	1-161-494-00	CERAMIC	0.022uF		25V
C637	1-162-294-31	CERAMIC	0.001uF	10%	50V
C638	1-162-294-31	CERAMIC	0.001uF	10%	50V
C639	1-162-294-31	CERAMIC	0.001uF	10%	50V
C640	1-104-664-11	ELECT	47uF	20%	10V
C643	1-126-959-11	ELECT	0.47uF	20%	50V

FRONT

Ref. No.	Part No.	Description			Remarks
C644	1-164-206-41	CERAMIC	0.047uF	99%	50V
C645	1-126-957-11	ELECT	0.22uF	20%	50V
C646	1-126-957-11	ELECT	0.22uF	20%	50V
C647	1-162-306-11	CERAMIC	0.01uF	20%	16V
C648	1-126-957-11	ELECT	0.22uF	20%	50V
C649	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C650	1-137-396-11	FILM	0.033uF	5%	100V
C651	1-126-957-11	ELECT	0.22uF	20%	50V
C653	1-162-293-31	CERAMIC	820PF	10%	50V
C654	1-126-957-11	ELECT	0.22uF	20%	50V
C655	1-126-957-11	ELECT	0.22uF	20%	50V
C658	1-162-286-31	CERAMIC	220PF	10%	50V
C659	1-162-286-31	CERAMIC	220PF	10%	50V
C660	1-162-286-31	CERAMIC	220PF	10%	50V
C661	1-162-286-31	CERAMIC	220PF	10%	50V
C662	1-162-286-31	CERAMIC	220PF	10%	50V
C663	1-126-934-11	ELECT	220uF	20%	16V
C664	1-126-934-11	ELECT	220uF	20%	16V
C665	1-162-286-31	CERAMIC	220PF	10%	50V
C667	1-162-286-31	CERAMIC	220PF	10%	50V
C668	1-126-933-11	ELECT	100uF	20%	16V
C669	1-164-206-41	CERAMIC	0.047uF	99%	50V
C670	1-164-206-41	CERAMIC	0.047uF	99%	50V
C671	1-126-960-11	ELECT	1uF	20%	50V
C672	1-162-286-31	CERAMIC	220PF	10%	50V
C673	1-126-963-11	ELECT	4.7uF	20%	50V
		< CONNECTOR >			
* CN603	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P			
* CN606	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P			
CN607	1-568-835-21	SOCKET, CONNECTOR 16P			
		< DIODE >			
D601	8-719-031-85	DIODE 1N4002L			
D602	8-719-031-85	DIODE 1N4002L			
D603	8-719-991-33	DIODE 1SS133T-77			
D604	8-719-991-33	DIODE 1SS133T-77			
D605	8-719-947-12	DIODE MTZJ-T-72-4.7A			
D606	8-719-991-33	DIODE 1SS133T-77			
D608	8-719-991-33	DIODE 1SS133T-77			
D609	8-719-991-33	DIODE 1SS133T-77			
D612	8-719-991-33	DIODE 1SS133T-77			
D613	8-719-991-33	DIODE 1SS133T-77			
D614	8-719-991-33	DIODE 1SS133T-77			
D615	8-719-991-33	DIODE 1SS133T-77			
D616	8-719-991-33	DIODE 1SS133T-77			
D617	8-719-991-33	DIODE 1SS133T-77			
D618	8-719-991-33	DIODE 1SS133T-77			
D619	8-719-991-33	DIODE 1SS133T-77			
D620	8-719-991-33	DIODE 1SS133T-77			
D621	8-719-991-33	DIODE 1SS133T-77			
D622	8-719-991-33	DIODE 1SS133T-77			
D624	8-719-991-33	DIODE 1SS133T-77			
D723	8-719-991-33	DIODE 1SS133T-77			
D730	8-719-991-33	DIODE 1SS133T-77			
D731	8-719-991-33	DIODE 1SS133T-77			
		< FLUORESCENT INDICATOR >			
FLD601	1-517-840-31	INDICATOR TUBE, FLUORESCENT			

Ref. No.	Part No.	Description			Remarks
		< IC >			
IC601	8-759-595-06	IC LC866540A-5K40			
IC602	8-759-275-23	IC BU2092			
IC603	8-759-473-61	IC BU211			
IC604	8-759-000-49	IC MC14066BCP			
IC606	8-759-916-52	IC SN74HC165AN			
IC607	8-759-234-75	IC TC74HC4094AP			
		< COIL >			
L601	1-414-151-11	INDUCTOR 470uH			
		< LED >			
LED601	8-719-062-09	LED SEL2815A-CD (ENTER/NEXT)			
LED602	8-719-303-02	LED SEL2510C-D (TUNER/BAND)			
LED603	8-719-028-38	LED SEL2215R-CD-TP (GROOVE)			
LED605	8-719-052-46	LED SEL1450EKM-TP5 (SALSA)			
LED606	8-719-052-46	LED SEL1450EKM-TP5 (JAZZ)			
LED607	8-719-052-46	LED SEL1450EKM-TP5 (POPS)			
LED608	8-719-052-46	LED SEL1450EKM-TP5 (ROCK)			
LED610	8-719-028-38	LED SEL2215R-CD-TP (● REC)			
LED611	8-719-062-09	LED SEL2815A-CD (▮▮)			
LED612	8-719-303-02	LED SEL2510C-D (TAPE B, ◀)			
LED613	8-719-303-02	LED SEL2510C-D (TAPE B, ▶)			
LED614	8-719-303-02	LED SEL2510C-D (TAPE A, ◀)			
LED615	8-719-303-02	LED SEL2510C-D (TAPE A, ▶)			
		< TRANSISTOR >			
Q601	8-729-194-57	TRANSISTOR 2SC945-P			
Q602	8-729-194-57	TRANSISTOR 2SC945-P			
Q603	8-729-194-57	TRANSISTOR 2SC945-P			
Q604	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q607	8-729-194-57	TRANSISTOR 2SC945-P			
Q608	8-729-026-29	TRANSISTOR 2SJ346			
Q609	8-729-026-29	TRANSISTOR 2SJ346			
Q610	8-729-194-57	TRANSISTOR 2SC945-P			
Q611	8-729-194-57	TRANSISTOR 2SC945-P			
Q612	8-729-194-57	TRANSISTOR 2SC945-P			
Q613	8-729-993-43	TRANSISTOR 2SA934R			
Q614	8-729-993-43	TRANSISTOR 2SA934R			
Q615	8-729-993-43	TRANSISTOR 2SA934R			
		< RESISTOR >			
R601	1-247-871-11	CARBON	47K	5%	1/4W
R602	1-249-417-11	CARBON	1K	5%	1/4W F
R603	1-249-417-11	CARBON	1K	5%	1/4W F
R604	1-247-871-11	CARBON	47K	5%	1/4W
R605	1-247-871-11	CARBON	47K	5%	1/4W
R606	1-249-417-11	CARBON	1K	5%	1/4W F
R607	1-249-431-11	CARBON	15K	5%	1/4W
R608	1-247-871-11	CARBON	47K	5%	1/4W
R609	1-247-855-11	CARBON	10K	5%	1/4W
R610	1-247-855-11	CARBON	10K	5%	1/4W
R611	1-247-855-11	CARBON	10K	5%	1/4W
R612	1-247-855-11	CARBON	10K	5%	1/4W
R613	1-247-855-11	CARBON	10K	5%	1/4W
R614	1-247-855-11	CARBON	10K	5%	1/4W
R615	1-247-855-11	CARBON	10K	5%	1/4W

Ref. No.	Part No.	Description			Remarks
R616	1-247-855-11	CARBON	10K	5%	1/4W
R617	1-247-807-11	CARBON	100	5%	1/4W
R618	1-247-807-11	CARBON	100	5%	1/4W
R619	1-247-827-11	CARBON	680	5%	1/4W
R620	1-249-416-11	CARBON	820	5%	1/4W F
R621	1-249-418-11	CARBON	1.2K	5%	1/4W F
R622	1-247-835-11	CARBON	1.5K	5%	1/4W
R623	1-247-839-11	CARBON	2.2K	5%	1/4W
R624	1-247-843-11	CARBON	3.3K	5%	1/4W
R625	1-247-847-11	CARBON	4.7K	5%	1/4W
R626	1-249-428-11	CARBON	8.2K	5%	1/4W F
R627	1-249-430-11	CARBON	12K	5%	1/4W
R628	1-249-434-11	CARBON	27K	5%	1/4W
R629	1-247-827-11	CARBON	680	5%	1/4W
R630	1-249-416-11	CARBON	820	5%	1/4W F
R631	1-249-418-11	CARBON	1.2K	5%	1/4W F
R632	1-247-835-11	CARBON	1.5K	5%	1/4W
R633	1-247-839-11	CARBON	2.2K	5%	1/4W
R634	1-247-843-11	CARBON	3.3K	5%	1/4W
R635	1-247-847-11	CARBON	4.7K	5%	1/4W
R636	1-249-428-11	CARBON	8.2K	5%	1/4W F
R637	1-249-431-11	CARBON	15K	5%	1/4W
R639	1-247-827-11	CARBON	680	5%	1/4W
R640	1-249-416-11	CARBON	820	5%	1/4W F
R641	1-249-418-11	CARBON	1.2K	5%	1/4W F
R642	1-247-835-11	CARBON	1.5K	5%	1/4W
R643	1-247-839-11	CARBON	2.2K	5%	1/4W
R644	1-247-843-11	CARBON	3.3K	5%	1/4W
R645	1-247-847-11	CARBON	4.7K	5%	1/4W
R646	1-249-428-11	CARBON	8.2K	5%	1/4W F
R647	1-249-431-11	CARBON	15K	5%	1/4W
R648	1-247-827-11	CARBON	680	5%	1/4W
R649	1-249-416-11	CARBON	820	5%	1/4W F
R653	1-247-827-11	CARBON	680	5%	1/4W
R654	1-249-416-11	CARBON	820	5%	1/4W F
R675	1-247-871-11	CARBON	47K	5%	1/4W
R676	1-247-855-11	CARBON	10K	5%	1/4W
R678	1-247-855-11	CARBON	10K	5%	1/4W
R679	1-247-855-11	CARBON	10K	5%	1/4W
R681	1-249-410-11	CARBON	270	5%	1/4W F
R682	1-249-410-11	CARBON	270	5%	1/4W F
R683	1-249-410-11	CARBON	270	5%	1/4W F
R684	1-249-410-11	CARBON	270	5%	1/4W F
R685	1-247-855-11	CARBON	10K	5%	1/4W
R687	1-249-410-11	CARBON	270	5%	1/4W F
R688	1-249-410-11	CARBON	270	5%	1/4W F
R689	1-249-410-11	CARBON	270	5%	1/4W F
R690	1-249-410-11	CARBON	270	5%	1/4W F
R691	1-249-410-11	CARBON	270	5%	1/4W F
R692	1-249-410-11	CARBON	270	5%	1/4W F
R693	1-249-407-11	CARBON	150	5%	1/4W F
R694	1-249-407-11	CARBON	150	5%	1/4W F
R695	1-249-410-11	CARBON	270	5%	1/4W F
R697	1-249-407-11	CARBON	150	5%	1/4W F
R698	1-249-407-11	CARBON	150	5%	1/4W F

Ref. No.	Part No.	Description			Remarks
R699	1-249-407-11	CARBON	150	5%	1/4W F
R700	1-249-407-11	CARBON	150	5%	1/4W F
R701	1-247-847-11	CARBON	4.7K	5%	1/4W
R702	1-249-410-11	CARBON	270	5%	1/4W F
R703	1-249-410-11	CARBON	270	5%	1/4W F
R704	1-247-855-11	CARBON	10K	5%	1/4W
R705	1-249-417-11	CARBON	1K	5%	1/4W F
R706	1-247-855-11	CARBON	10K	5%	1/4W
R707	1-247-855-11	CARBON	10K	5%	1/4W
R709	1-247-871-11	CARBON	47K	5%	1/4W
R710	1-247-895-00	CARBON	470K	5%	1/4W
R711	1-247-835-11	CARBON	1.5K	5%	1/4W
R713	1-247-871-11	CARBON	47K	5%	1/4W
R714	1-247-895-00	CARBON	470K	5%	1/4W
R715	1-247-835-11	CARBON	1.5K	5%	1/4W
R717	1-247-871-11	CARBON	47K	5%	1/4W
R718	1-247-895-00	CARBON	470K	5%	1/4W
R719	1-247-835-11	CARBON	1.5K	5%	1/4W
R721	1-247-871-11	CARBON	47K	5%	1/4W
R722	1-247-895-00	CARBON	470K	5%	1/4W
R723	1-247-871-11	CARBON	47K	5%	1/4W
R724	1-247-895-00	CARBON	470K	5%	1/4W
R725	1-247-847-11	CARBON	4.7K	5%	1/4W
R726	1-247-847-11	CARBON	4.7K	5%	1/4W
R727	1-247-847-11	CARBON	4.7K	5%	1/4W
R728	1-247-863-11	CARBON	22K	5%	1/4W
R729	1-247-863-11	CARBON	22K	5%	1/4W
R730	1-247-855-11	CARBON	10K	5%	1/4W
R731	1-247-847-11	CARBON	4.7K	5%	1/4W
R732	1-247-847-11	CARBON	4.7K	5%	1/4W
R733	1-247-847-11	CARBON	4.7K	5%	1/4W
R734	1-247-847-11	CARBON	4.7K	5%	1/4W
R735	1-249-417-11	CARBON	1K	5%	1/4W F
R736	1-249-417-11	CARBON	1K	5%	1/4W F
R737	1-247-847-11	CARBON	4.7K	5%	1/4W
R738	1-247-839-11	CARBON	2.2K	5%	1/4W
R739	1-247-855-11	CARBON	10K	5%	1/4W
R741	1-247-839-11	CARBON	2.2K	5%	1/4W
R745	1-249-417-11	CARBON	1K	5%	1/4W F
R746	1-249-417-11	CARBON	1K	5%	1/4W F
R747	1-247-839-11	CARBON	2.2K	5%	1/4W
R748	1-247-839-11	CARBON	2.2K	5%	1/4W
R749	1-247-846-11	CARBON	4.3K	5%	1/4W
R750	1-249-417-11	CARBON	1K	5%	1/4W F
R751	1-249-410-11	CARBON	270	5%	1/4W F
R752	1-249-410-11	CARBON	270	5%	1/4W F
R756	1-247-839-11	CARBON	2.2K	5%	1/4W
R757	1-247-839-11	CARBON	2.2K	5%	1/4W
R758	1-247-835-11	CARBON	1.5K	5%	1/4W
R759	1-249-418-11	CARBON	1.2K	5%	1/4W F
R761	1-247-871-11	CARBON	47K	5%	1/4W
R762	1-247-879-11	CARBON	100K	5%	1/4W
R763	1-247-879-11	CARBON	100K	5%	1/4W
R764	1-247-887-00	CARBON	220K	5%	1/4W
R770	1-247-847-11	CARBON	4.7K	5%	1/4W
R771	1-247-855-11	CARBON	10K	5%	1/4W
R772	1-247-847-11	CARBON	4.7K	5%	1/4W
R773	1-249-417-11	CARBON	1K	5%	1/4W F

FRONT | H/P | LED | MAIN

Ref. No.	Part No.	Description	Remarks
		< SWITCH >	
S601	1-762-875-11	SWITCH, KEYBOARD (TAPE A, ▶)	
S602	1-762-875-11	SWITCH, KEYBOARD (TAPE A, ◀)	
S603	1-762-875-11	SWITCH, KEYBOARD (TAPE A, ■)	
S604	1-762-875-11	SWITCH, KEYBOARD (TAPE A, ◀◀)	
S605	1-762-875-11	SWITCH, KEYBOARD (TAPE A, ▶▶)	
S606	1-762-875-11	SWITCH, KEYBOARD (TAPE B, ▶)	
S607	1-762-875-11	SWITCH, KEYBOARD (TAPE B, ◀)	
S608	1-762-875-11	SWITCH, KEYBOARD (TAPE B, ■)	
S609	1-762-875-11	SWITCH, KEYBOARD (TAPE B, ▶▶)	
S610	1-762-875-11	SWITCH, KEYBOARD (TAPE B, ◀◀)	
S611	1-762-875-11	SWITCH, KEYBOARD (❚❚)	
S612	1-762-875-11	SWITCH, KEYBOARD (TUNING +)	
S613	1-762-875-11	SWITCH, KEYBOARD (TUNING –)	
S614	1-762-875-11	SWITCH, KEYBOARD (ROCK)	
S615	1-762-875-11	SWITCH, KEYBOARD (POPS)	
S616	1-762-875-11	SWITCH, KEYBOARD (JAZZ)	
S617	1-762-875-11	SWITCH, KEYBOARD (SALSA)	
S618	1-762-875-11	SWITCH, KEYBOARD (FLAT)	
S619	1-762-875-11	SWITCH, KEYBOARD (STEREO/MONO)	
S620	1-762-875-11	SWITCH, KEYBOARD (DBFB)	
S621	1-762-875-11	SWITCH, KEYBOARD (SURROUND)	
S622	1-762-875-11	SWITCH, KEYBOARD (FUNCTION)	
S623	1-762-875-11	SWITCH, KEYBOARD (I/⏻)	
S624	1-762-875-11	SWITCH, KEYBOARD (🕘 /CLOCK SET)	
S625	1-762-875-11	SWITCH, KEYBOARD (DAILY)	
S626	1-762-875-11	SWITCH, KEYBOARD (REC)	
S627	1-762-875-11	SWITCH, KEYBOARD (SLEEP)	
S628	1-762-875-11	SWITCH, KEYBOARD (DISPLAY/DEMO)	
S629	1-762-875-11	SWITCH, KEYBOARD (SPECTRUM ANALYZER)	
S630	1-762-875-11	SWITCH, KEYBOARD (TUNER MEMORY)	
S631	1-762-875-11	SWITCH, KEYBOARD (ENTER/NEXT)	
S632	1-762-875-11	SWITCH, KEYBOARD (TUNER/BAND)	
S633	1-762-875-11	SWITCH, KEYBOARD (TUNING MODE)	
S634	1-762-875-11	SWITCH, KEYBOARD (GROOVE)	
S635	1-762-875-11	SWITCH, KEYBOARD (DIRECTION)	
S636	1-762-875-11	SWITCH, KEYBOARD (DOLBY NR)	
S637	1-762-875-11	SWITCH, KEYBOARD (● REC)	
S638	1-762-875-11	SWITCH, KEYBOARD (CD SYNCHRO)	
		< ADJUSTABLE RESISTOR >	
SFR601	1-228-991-00	RES, ADJ, METAL 2.2K	
		< VIBRATOR >	
X601	1-579-743-11	VIBRATOR, CRYSTAL (6MHz)	
**********			
	1-674-641-11	H/P BOARD	
		*********	
		< JACK >	
JK701	1-569-612-11	JACK, MINIATURE (PHONES)	
**********			

Ref. No.	Part No.	Description	Remarks
	1-674-637-11	LED BOARD	
		*********	
		< LED >	
D07	8-719-301-44	LED SEL2410E-D(CASSETTE BOX BACK LIGHT)	
D08	8-719-301-44	LED SEL2410E-D(CASSETTE BOX BACK LIGHT)	
D09	8-719-301-44	LED SEL2410E-D(CASSETTE BOX BACK LIGHT)	
D10	8-719-301-44	LED SEL2410E-D(CASSETTE BOX BACK LIGHT)	
		< RESISTOR >	
R448	1-249-409-11	CARBON 220 5% 1/4W F	
**********			
	A-4426-118-A	MAIN BOARD, COMPLETE	
		**********	
⚠	1-533-293-11	FUSE HOLDER	
		< CAPACITOR >	
C108	1-126-933-11	ELECT 100uF 20% 16V	
C113	1-164-159-11	CERAMIC 0.1uF 50V	
C114	1-164-159-11	CERAMIC 0.1uF 50V	
C115	1-164-206-41	CERAMIC 0.047uF 99% 50V	
C116	1-130-467-00	MYLAR 470PF 5% 50V	
C117	1-162-206-31	CERAMIC 20PF 5% 50V	
C118	1-126-933-11	ELECT 100uF 20% 16V	
C120	1-161-494-00	CERAMIC 0.022uF 25V	
C121	1-162-211-31	CERAMIC 33PF 5% 50V	
C122	1-126-960-11	ELECT 1uF 20% 50V	
C123	1-126-959-11	ELECT 0.47uF 20% 50V	
C124	1-162-206-31	CERAMIC 20PF 5% 50V	
C125	1-126-960-11	ELECT 1uF 20% 50V	
C126	1-164-206-41	CERAMIC 0.047uF 99% 50V	
C127	1-126-964-11	ELECT 10uF 20% 50V	
C128	1-161-494-00	CERAMIC 0.022uF 25V	
C129	1-126-964-11	ELECT 10uF 20% 50V	
C130	1-137-396-11	FILM 0.033uF 5% 100V	
C131	1-137-396-11	FILM 0.033uF 5% 100V	
C132	1-137-504-11	FILM 150PF 5% 50V	
C133	1-137-504-11	FILM 150PF 5% 50V	
C135	1-162-293-31	CERAMIC 820PF 10% 50V	
C137	1-126-963-11	ELECT 4.7uF 20% 50V	
C138	1-137-397-11	FILM 0.047uF 5% 100V	
C139	1-161-494-00	CERAMIC 0.022uF 25V	
C140	1-126-933-11	ELECT 100uF 20% 16V	
C141	1-161-494-00	CERAMIC 0.022uF 25V	
C142	1-126-933-11	ELECT 100uF 20% 16V	
C143	1-137-401-11	FILM 0.22uF 5% 100V	
C144	1-137-393-11	FILM 0.01uF 5% 100V	
C146	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C148	1-161-494-00	CERAMIC 0.022uF 25V	
C149	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C150	1-164-159-11	CERAMIC 0.1uF 50V	
C151	1-128-551-11	ELECT 22uF 20% 25V	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remarks
C152	1-162-282-31	CERAMIC	100PF	10%	50V
C154	1-164-159-11	CERAMIC	0.1uF		50V
C155	1-162-294-31	CERAMIC	0.001uF	10%	50V
C156	1-102-516-11	CERAMIC	27PF	5%	50V
C157	1-102-516-11	CERAMIC	27PF	5%	50V
C158	1-104-664-11	ELECT	47uF	20%	16V
C159	1-162-306-11	CERAMIC	0.01uF	20%	16V
C160	1-126-963-11	ELECT	4.7uF	20%	50V
C161	1-126-963-11	ELECT	4.7uF	20%	50V
C162	1-161-494-00	CERAMIC	0.022uF		25V
C163	1-161-494-00	CERAMIC	0.022uF		25V
C164	1-126-962-11	ELECT	3.3uF	20%	50V
C165	1-162-306-11	CERAMIC	0.01uF	20%	16V
C177	1-161-494-00	CERAMIC	0.022uF		25V
C179	1-162-294-31	CERAMIC	0.001uF	10%	50V
C185	1-162-306-11	CERAMIC	0.01uF	20%	16V
C186	1-162-306-11	CERAMIC	0.01uF	20%	16V
C187	1-161-494-00	CERAMIC	0.022uF		25V
C188	1-126-963-11	ELECT	4.7uF	20%	50V
C189	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C194	1-162-286-31	CERAMIC	220PF	10%	50V
C195	1-162-286-31	CERAMIC	220PF	10%	50V
C196	1-162-286-31	CERAMIC	220PF	10%	50V
C197	1-162-286-31	CERAMIC	220PF	10%	50V
C198	1-126-959-11	ELECT	0.47uF	20%	50V
C199	1-164-206-41	CERAMIC	0.047uF	99%	50V
C201	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C202	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C203	1-162-282-31	CERAMIC	100PF	10%	50V
C204	1-162-282-31	CERAMIC	100PF	10%	50V
C205	1-162-290-31	CERAMIC	470PF	10%	50V
C206	1-162-290-31	CERAMIC	470PF	10%	50V
C207	1-162-294-31	CERAMIC	0.001uF	10%	50V
C208	1-162-294-31	CERAMIC	0.001uF	10%	50V
C209	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C210	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C211	1-102-128-00	CERAMIC	0.0082uF	10%	50V
C212	1-102-128-00	CERAMIC	0.0082uF	10%	50V
C213	1-126-959-11	ELECT	0.47uF	20%	50V
C214	1-126-959-11	ELECT	0.47uF	20%	50V
C215	1-126-933-11	ELECT	100uF	20%	16V
C216	1-126-933-11	ELECT	100uF	20%	16V
C217	1-162-294-31	CERAMIC	0.001uF	10%	50V
C218	1-162-294-31	CERAMIC	0.001uF	10%	50V
C219	1-126-959-11	ELECT	0.47uF	20%	50V
C220	1-126-959-11	ELECT	0.47uF	20%	50V
C221	1-126-961-11	ELECT	2.2uF	20%	50V
C222	1-126-961-11	ELECT	2.2uF	20%	50V
C223	1-104-664-11	ELECT	47uF	20%	16V
C224	1-126-964-11	ELECT	10uF	20%	50V
C225	1-126-964-11	ELECT	10uF	20%	50V
C226	1-104-664-11	ELECT	47uF	20%	16V
C227	1-126-961-11	ELECT	2.2uF	20%	50V
C228	1-126-961-11	ELECT	2.2uF	20%	50V
C229	1-162-199-31	CERAMIC	10PF	5%	50V

Ref. No.	Part No.	Description			Remarks
C230	1-162-199-31	CERAMIC	10PF	5%	50V
C231	1-126-961-11	ELECT	2.2uF	20%	50V
C232	1-126-961-11	ELECT	2.2uF	20%	50V
C233	1-126-962-11	ELECT	3.3uF	20%	50V
C234	1-126-962-11	ELECT	3.3uF	20%	50V
C235	1-126-961-11	ELECT	2.2uF	20%	50V
C236	1-126-961-11	ELECT	2.2uF	20%	50V
C237	1-109-889-11	ELECT	1uF	20%	50V
C238	1-126-933-11	ELECT	100uF	20%	16V
C239	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C240	1-162-286-31	CERAMIC	220PF	10%	50V
C241	1-137-396-11	FILM	0.033uF	5%	100V
C242	1-137-396-11	FILM	0.033uF	5%	100V
C243	1-107-357-11	FILM	0.47uF	5%	100V
C244	1-107-357-11	FILM	0.47uF	5%	100V
C245	1-161-494-00	CERAMIC	0.022uF		25V
C246	1-161-494-00	CERAMIC	0.022uF		25V
C247	1-126-935-11	ELECT	470uF	20%	16V
C248	1-126-961-11	ELECT	2.2uF	20%	50V
C249	1-126-961-11	ELECT	2.2uF	20%	50V
C250	1-164-159-11	CERAMIC	0.1uF		50V
C251	1-126-963-11	ELECT	4.7uF	20%	50V
C252	1-126-963-11	ELECT	4.7uF	20%	50V
C255	1-164-159-11	CERAMIC	0.1uF		50V
C256	1-126-961-11	ELECT	2.2uF	20%	50V
C257	1-126-961-11	ELECT	2.2uF	20%	50V
C260	1-164-159-11	CERAMIC	0.1uF		50V
C301	1-126-961-11	ELECT	2.2uF	20%	50V
C302	1-126-961-11	ELECT	2.2uF	20%	50V
C303	1-162-288-31	CERAMIC	330PF	10%	50V
C304	1-162-288-31	CERAMIC	330PF	10%	50V
C305	1-162-286-31	CERAMIC	220PF	10%	50V
C306	1-162-286-31	CERAMIC	220PF	10%	50V
C307	1-162-288-31	CERAMIC	330PF	10%	50V
C308	1-162-288-31	CERAMIC	330PF	10%	50V
C309	1-126-961-11	ELECT	2.2uF	20%	50V
C310	1-126-961-11	ELECT	2.2uF	20%	50V
C311	1-126-933-11	ELECT	100uF	20%	16V
C312	1-126-933-11	ELECT	100uF	20%	16V
C313	1-162-288-31	CERAMIC	330PF	10%	50V
C314	1-162-288-31	CERAMIC	330PF	10%	50V
C315	1-137-399-11	FILM	0.1uF	5%	100V
C316	1-137-399-11	FILM	0.1uF	5%	100V
C317	1-137-399-11	FILM	0.1uF	5%	100V
C318	1-137-399-11	FILM	0.1uF	5%	100V
C319	1-162-282-31	CERAMIC	100PF	10%	50V
C320	1-162-282-31	CERAMIC	100PF	10%	50V
C321	1-126-933-11	ELECT	100uF	20%	16V
C322	1-126-933-11	ELECT	100uF	20%	16V
C323	1-126-960-11	ELECT	1uF	20%	50V
C324	1-126-960-11	ELECT	1uF	20%	50V
C325	1-126-963-11	ELECT	4.7uF	20%	50V
C327	1-126-934-11	ELECT	220uF	20%	16V
C328	1-126-961-11	ELECT	2.2uF	20%	50V
C329	1-126-961-11	ELECT	2.2uF	20%	50V

MAIN

Ref. No.	Part No.	Description			Remarks
C330	1-126-933-11	ELECT	100uF	20%	16V
C333	1-126-933-11	ELECT	100uF	20%	16V
C334	1-126-933-11	ELECT	100uF	20%	16V
C335	1-161-494-00	CERAMIC	0.022uF		25V
C336	1-126-933-11	ELECT	100uF	20%	16V
C337	1-126-934-11	ELECT	220uF	20%	16V
C338	1-161-494-00	CERAMIC	0.022uF		25V
C339	1-161-494-00	CERAMIC	0.022uF		25V
C340	1-126-933-11	ELECT	100uF	20%	16V
C341	1-126-933-11	ELECT	100uF	20%	16V
C342	1-164-159-11	CERAMIC	0.1uF		50V
C343	1-161-494-00	CERAMIC	0.022uF		25V
C345	1-109-953-11	ELECT	2.2uF	20%	50V
C346	1-137-401-11	FILM	0.22uF	5%	100V
C347	1-162-294-31	CERAMIC	0.001uF	10%	50V
C350	1-126-934-11	ELECT	220uF	20%	50V
C800A	1-126-960-11	ELECT	1uF	20%	50V
C801	1-162-292-31	CERAMIC	680PF	10%	50V
C802	1-162-292-31	CERAMIC	680PF	10%	50V
C803	1-162-292-31	CERAMIC	680PF	10%	50V
C804	1-162-292-31	CERAMIC	680PF	10%	50V
C805	1-164-159-11	CERAMIC	0.1uF		50V
C806	1-126-933-11	ELECT	100uF	20%	16V
C807	1-126-963-11	ELECT	4.7uF	20%	50V
C808	1-126-963-11	ELECT	4.7uF	20%	50V
C809	1-126-960-11	ELECT	1uF	20%	50V
C811	1-126-964-11	ELECT	10uF	20%	50V
C812	1-126-964-11	ELECT	10uF	20%	50V
C813	1-162-288-31	CERAMIC	330PF	10%	50V
C814	1-162-288-31	CERAMIC	330PF	10%	50V
C815	1-162-288-31	CERAMIC	330PF	10%	50V
C816	1-162-288-31	CERAMIC	330PF	10%	50V
C817	1-162-306-11	CERAMIC	0.01uF	20%	16V
C818	1-162-306-11	CERAMIC	0.01uF	20%	16V
C819	1-126-963-11	ELECT	4.7uF	20%	50V
C820	1-126-963-11	ELECT	4.7uF	20%	50V
C821	1-162-293-31	CERAMIC	820PF	10%	50V
C822	1-162-293-31	CERAMIC	820PF	10%	50V
C823	1-162-282-31	CERAMIC	100PF	10%	50V
C824	1-162-282-31	CERAMIC	100PF	10%	50V
C825	1-164-159-11	CERAMIC	0.1uF		50V
C826	1-126-933-11	ELECT	100uF	20%	16V
C827	1-126-964-11	ELECT	10uF	20%	50V
C828	1-104-664-11	ELECT	47uF	20%	16V
C829	1-126-934-11	ELECT	220uF	20%	16V
C830	1-126-933-11	ELECT	100uF	20%	16V
C831	1-126-960-11	ELECT	1uF	20%	50V
C832	1-126-960-11	ELECT	1uF	20%	50V
C833	1-162-282-31	CERAMIC	100PF	10%	50V
C834	1-162-282-31	CERAMIC	100PF	10%	50V
C835	1-162-287-31	CERAMIC	270PF	10%	50V
C836	1-162-287-31	CERAMIC	270PF	10%	50V
C837	1-162-287-31	CERAMIC	270PF	10%	50V
C838	1-162-287-31	CERAMIC	270PF	10%	50V
C839	1-126-960-11	ELECT	1uF	20%	50V

Ref. No.	Part No.	Description			Remarks
C840	1-126-960-11	ELECT	1uF	20%	50V
C841	1-164-736-31	CERAMIC	0.0012uF	10%	50V
C842	1-164-736-31	CERAMIC	0.0012uF	10%	50V
C845	1-162-285-31	CERAMIC	180PF	10%	50V
C846	1-162-285-31	CERAMIC	180PF	10%	50V
C847	1-126-960-11	ELECT	1uF	20%	50V
C848	1-126-960-11	ELECT	1uF	20%	50V
C849	1-126-933-11	ELECT	100uF	20%	16V
C851	1-109-889-11	ELECT	1uF	20%	50V
C852	1-109-889-11	ELECT	1uF	20%	50V
C853	1-102-120-00	CERAMIC	0.0018uF	10%	50V
C854	1-102-120-00	CERAMIC	0.0018uF	10%	50V
C855	1-126-964-11	ELECT	10uF	20%	50V
C856	1-126-964-11	ELECT	10uF	20%	50V
C857	1-126-933-11	ELECT	100uF	20%	16V
C858	1-126-933-11	ELECT	100uF	20%	16V
C859	1-126-956-11	ELECT	0.1uF	20%	50V
C860	1-126-956-11	ELECT	0.1uF	20%	50V
C861	1-126-964-11	ELECT	10uF	20%	50V
C862	1-126-964-11	ELECT	10uF	20%	50V
C863	1-126-964-11	ELECT	10uF	20%	50V
C864	1-126-964-11	ELECT	10uF	20%	50V
C865	1-162-290-31	CERAMIC	470PF	10%	50V
C866	1-162-290-31	CERAMIC	470PF	10%	50V
C867	1-128-551-11	ELECT	22uF	20%	25V
C868	1-126-964-11	ELECT	10uF	20%	50V
C869	1-126-956-11	ELECT	0.1uF	20%	50V
C870	1-126-956-11	ELECT	0.1uF	20%	50V
C875	1-136-298-00	FILM	0.0033uF	5%	100V
C876	1-161-494-00	CERAMIC	0.022uF		25V
C877	1-126-961-11	ELECT	2.2uF	20%	50V
C880	1-137-391-11	FILM	0.0047uF	5%	100V
C881	1-136-298-00	FILM	0.0033uF	5%	100V
C882	1-137-350-11	FILM	0.015uF	5%	100V
C883	1-162-292-31	CERAMIC	680PF	10%	50V
C884	1-162-292-31	CERAMIC	680PF	10%	50V
C885	1-162-286-31	CERAMIC	220PF	10%	50V
C886	1-162-286-31	CERAMIC	220PF	10%	50V
C887	1-130-481-00	MYLAR	0.0068uF	5%	50V
C888	1-104-664-11	ELECT	47uF	20%	16V
C891	1-126-960-11	ELECT	1uF	20%	50V
C892	1-162-219-31	CERAMIC	68PF	5%	50V
C893	1-162-219-31	CERAMIC	68PF	5%	50V
C894	1-126-963-11	ELECT	4.7uF	20%	50V
C895	1-126-963-11	ELECT	4.7uF	20%	50V
C896	1-104-664-11	ELECT	47uF	20%	16V
C897	1-126-935-11	ELECT	470uF	20%	16V
C901	1-164-159-11	CERAMIC	0.1uF		50V
C902	1-164-159-11	CERAMIC	0.1uF		50V
C903	1-126-960-11	ELECT	1uF	20%	50V
C904	1-126-960-11	ELECT	1uF	20%	50V
C905	1-126-959-11	ELECT	0.47uF	20%	50V
C906	1-126-933-11	ELECT	100uF	20%	16V
C907	1-126-956-11	ELECT	0.1uF	20%	50V
C908	1-126-956-11	ELECT	0.1uF	20%	50V
C921	1-126-964-11	ELECT	10uF	20%	50V
C922	1-126-964-11	ELECT	10uF	20%	50V
C925	1-126-964-11	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description	Remarks
		< FILTER >	
CF101	1-567-390-11	FILTER,CERAMIC 10.7M	
CF102	1-567-415-11	FILTER, CERAMIC	
CF103	1-527-996-11	FILTER, CERAMIC	
CF104	1-567-415-71	FILTER, CERAMIC	
		< CONNECTOR >	
* CN301	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P	
		< DIODE >	
D101	8-719-911-19	DIODE 1SS119	
D102	8-719-911-19	DIODE 1SS119	
D103	8-719-911-19	DIODE 1SS119	
D104	8-719-911-19	DIODE 1SS119	
D107	8-719-053-11	DIODE KV1560-TL34	
D109	8-719-911-19	DIODE 1SS119	
D110	8-719-010-41	DIODE UZ-5.6BSA	
D111	8-719-911-19	DIODE 1SS119	
D301	8-719-911-19	DIODE 1SS119	
D302	8-719-911-19	DIODE 1SS119	
D303	8-719-010-73	DIODE UZ-12BSA	
D304	8-719-010-45	DIODE UZ-6.2BSA	
D305	8-719-911-19	DIODE 1SS119	
D306	8-719-911-19	DIODE 1SS119	
D307	8-719-010-45	DIODE UZ-6.2BSA	
D308	8-719-010-45	DIODE UZ-6.2BSA	
D309	8-719-991-33	DIODE ISS133T-77	
D310	8-719-991-33	DIODE ISS133T-77	
D612	8-719-911-19	DIODE 1SS119	
D802	8-719-911-19	DIODE 1SS119	
D803	8-719-911-19	DIODE 1SS119	
D804	8-719-911-19	DIODE 1SS119	
D805	8-719-911-19	DIODE 1SS119	
D806	8-719-911-19	DIODE 1SS119	
D807	8-719-911-19	DIODE 1SS119	
D808	8-719-911-19	DIODE 1SS119	
D811	8-719-911-19	DIODE 1SS119	
D812	8-719-911-19	DIODE 1SS119	
		< IC >	
IC102	8-759-590-14	IC LA1833L	
IC103	8-759-590-13	IC LC72131D	
IC201	8-759-595-07	IC M62443FP	
IC202	8-759-634-51	IC M5218AP	
IC203	8-759-000-49	IC MC14066BCP	
IC301	8-759-634-51	IC M5218AP	
IC302	8-759-634-51	IC M5218AP	
IC303	8-759-634-51	IC M5218AP	
IC801	8-759-206-23	IC TA7784P	
IC802	8-759-545-67	IC TA8135P	
IC803	8-752-056-08	IC CXA1551P	
		< JACK >	
JK101	1-694-092-21	TERMINAL BOARD (SPEAKER)	
JK201	1-779-688-11	JACK, PIN 6P (MD/VIDEO IN/OUT,PHONO IN)	

Ref. No.	Part No.	Description	Remarks
		< COIL >	
L104	1-411-901-11	COIL, ANTENNA	
L105	1-429-555-11	TRANSFORMER, MW OSC	
L106	1-412-507-11	INDUCTOR 47uH	
L108	1-412-503-11	INDUCTOR 22uH	
L113	1-412-503-11	INDUCTOR 22uH	
L114	1-412-503-11	INDUCTOR 22uH	
L301	1-408-096-00	INDUCTOR 470uH	
L302	1-408-096-00	INDUCTOR 470uH	
L801	1-410-775-11	INDUCTOR 10mH	
L802	1-410-775-11	INDUCTOR 10mH	
L803	1-236-147-11	FILTER, LOW PASS	
L804	1-236-147-11	FILTER, LOW PASS	
L805	1-239-597-11	FILTER, LOW PASS	
L806	1-239-597-11	FILTER, LOW PASS	
L808	1-408-096-00	INDUCTOR 470uH	
L809	1-433-412-11	TRANSFORMER, BIAS OSCILLATION	
		< TRANSISTOR >	
Q101	8-729-015-41	TRANSISTOR 2SC1675-T1	
Q108	8-729-041-83	TRANSISTOR 2SK544E	
Q114	8-729-026-29	TRANSISTOR 2SJ346	
Q116	8-729-194-57	TRANSISTOR 2SC945-P	
Q117	8-729-194-57	TRANSISTOR 2SC945-P	
Q201	8-729-194-57	TRANSISTOR 2SC945-P	
Q202	8-729-194-57	TRANSISTOR 2SC945-P	
Q203	8-729-194-57	TRANSISTOR 2SC945-P	
Q204	8-729-194-57	TRANSISTOR 2SC945-P	
Q205	8-729-026-29	TRANSISTOR 2SJ346	
Q206	8-729-194-57	TRANSISTOR 2SC945-P	
Q207	8-729-194-57	TRANSISTOR 2SC945-P	
Q208	8-729-194-57	TRANSISTOR 2SC945-P	
Q209	8-729-194-57	TRANSISTOR 2SC945-P	
Q210	8-729-026-29	TRANSISTOR 2SJ346	
Q301	8-729-194-57	TRANSISTOR 2SC945-P	
Q302	8-729-194-57	TRANSISTOR 2SC945-P	
Q303	8-729-194-57	TRANSISTOR 2SC945-P	
Q304	8-729-194-57	TRANSISTOR 2SC945-P	
Q305	8-729-224-62	TRANSISTOR 2SK246-GR	
Q306	8-729-026-29	TRANSISTOR 2SJ346	
Q308	8-729-232-32	TRANSISTOR 2SA965	
Q309	8-729-140-96	TRANSISTOR 2SD774-34	
Q310	8-729-140-96	TRANSISTOR 2SD774-34	
Q801	8-729-194-57	TRANSISTOR 2SC945-P	
Q802	8-729-194-57	TRANSISTOR 2SC945-P	
Q803	8-729-194-57	TRANSISTOR 2SC945-P	
Q804	8-729-194-57	TRANSISTOR 2SC945-P	
Q805	8-729-194-57	TRANSISTOR 2SC945-P	
Q806	8-729-194-57	TRANSISTOR 2SC945-P	
Q807	8-729-194-57	TRANSISTOR 2SC945-P	
Q808	8-729-194-57	TRANSISTOR 2SC945-P	
Q809	8-729-194-57	TRANSISTOR 2SC945-P	
Q810	8-729-194-57	TRANSISTOR 2SC945-P	
Q811	8-729-194-57	TRANSISTOR 2SC945-P	
Q812	8-729-194-57	TRANSISTOR 2SC945-P	
Q813	8-729-194-57	TRANSISTOR 2SC945-P	
Q814	8-729-194-57	TRANSISTOR 2SC945-P	
Q815	8-729-194-57	TRANSISTOR 2SC945-P	
Q816	8-729-142-46	TRANSISTOR 2SC2001-LK	

MAIN

Ref. No.	Part No.	Description	Remarks
Q817	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q822	8-729-194-57	TRANSISTOR 2SC945-P	
Q823	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q825	8-729-194-57	TRANSISTOR 2SC945-P	
Q826	8-729-194-57	TRANSISTOR 2SC945-P	
Q829	8-729-194-57	TRANSISTOR 2SC945-P	
Q830	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q831	8-729-194-57	TRANSISTOR 2SC945-P	
Q832	8-729-194-57	TRANSISTOR 2SC945-P	
Q833	8-729-194-57	TRANSISTOR 2SC945-P	
		< RESISTOR >	
R104	1-249-409-11	CARBON 220 5% 1/4W	F
R105	1-249-417-11	CARBON 1K 5% 1/4W	F
R106	1-247-849-11	CARBON 5.6K 5% 1/4W	
R107	1-249-427-11	CARBON 6.8K 5% 1/4W	F
R112	1-247-698-11	CARBON 68 5% 1/4W	F
R113	1-249-417-11	CARBON 1K 5% 1/4W	F
R114	1-247-871-11	CARBON 47K 5% 1/4W	
R115	1-249-417-11	CARBON 1K 5% 1/4W	F
R116	1-249-397-11	CARBON 22 5% 1/4W	F
R117	1-247-839-11	CARBON 2.2K 5% 1/4W	
R118	1-247-807-11	CARBON 100 5% 1/4W	
R119	1-249-410-11	CARBON 270 5% 1/4W	F
R120	1-247-843-11	CARBON 3.3K 5% 1/4W	
R121	1-247-855-11	CARBON 10K 5% 1/4W	
R123	1-249-428-11	CARBON 8.2K 5% 1/4W	F
R124	1-247-843-11	CARBON 3.3K 5% 1/4W	
R126	1-249-417-11	CARBON 1K 5% 1/4W	F
R127	1-249-417-11	CARBON 1K 5% 1/4W	F
R128	1-249-431-11	CARBON 15K 5% 1/4W	
R129	1-249-431-11	CARBON 15K 5% 1/4W	
R130	1-249-405-11	CARBON 100 5% 1/4W	F
R131	1-249-417-11	CARBON 1K 5% 1/4W	F
R132	1-247-855-11	CARBON 10K 5% 1/4W	
R133	1-247-849-11	CARBON 5.6K 5% 1/4W	
R134	1-247-855-11	CARBON 10K 5% 1/4W	
R135	1-249-417-11	CARBON 1K 5% 1/4W	F
R136	1-247-879-11	CARBON 100K 5% 1/4W	
R137	1-247-855-11	CARBON 10K 5% 1/4W	
R138	1-247-807-11	CARBON 100 5% 1/4W	
R139	1-247-855-11	CARBON 10K 5% 1/4W	
R140	1-247-855-11	CARBON 10K 5% 1/4W	
R141	1-249-417-11	CARBON 1K 5% 1/4W	F
R142	1-249-417-11	CARBON 1K 5% 1/4W	F
R143	1-249-417-11	CARBON 1K 5% 1/4W	F
R144	1-249-411-11	CARBON 330 5% 1/4W	
R147	1-247-835-11	CARBON 1.5K 5% 1/4W	
R151	1-247-843-11	CARBON 3.3K 5% 1/4W	
R155	1-247-843-11	CARBON 3.3K 5% 1/4W	
R156	1-247-863-11	CARBON 22K 5% 1/4W	
R157	1-247-863-11	CARBON 22K 5% 1/4W	
R172	1-247-847-11	CARBON 4.7K 5% 1/4W	
R173	1-249-432-11	CARBON 18K 5% 1/4W	
R174	1-249-409-11	CARBON 220 5% 1/4W	F
R175	1-249-427-11	CARBON 6.8K 5% 1/4W	F
R180	1-249-431-11	CARBON 15K 5% 1/4W	

Ref. No.	Part No.	Description	Remarks
R201	1-249-417-11	CARBON 1K 5% 1/4W	F
R202	1-249-417-11	CARBON 1K 5% 1/4W	F
R203	1-249-417-11	CARBON 1K 5% 1/4W	F
R204	1-249-417-11	CARBON 1K 5% 1/4W	F
R205	1-247-855-11	CARBON 10K 5% 1/4W	
R206	1-247-855-11	CARBON 10K 5% 1/4W	
R207	1-247-879-11	CARBON 100K 5% 1/4W	
R208	1-247-879-11	CARBON 100K 5% 1/4W	
R209	1-247-825-11	CARBON 560 5% 1/4W	
R210	1-247-825-11	CARBON 560 5% 1/4W	
R211	1-247-867-11	CARBON 33K 5% 1/4W	
R212	1-247-867-11	CARBON 33K 5% 1/4W	
R213	1-247-893-11	CARBON 390K 5% 1/4W	
R214	1-247-893-11	CARBON 390K 5% 1/4W	
R215	1-247-839-11	CARBON 2.2K 5% 1/4W	
R216	1-247-839-11	CARBON 2.2K 5% 1/4W	
R217	1-247-835-11	CARBON 1.5K 5% 1/4W	
R218	1-247-835-11	CARBON 1.5K 5% 1/4W	
R219	1-249-413-11	CARBON 470 5% 1/4W	F
R220	1-249-413-11	CARBON 470 5% 1/4W	F
R221	1-247-839-11	CARBON 2.2K 5% 1/4W	
R222	1-247-839-11	CARBON 2.2K 5% 1/4W	
R223	1-247-835-11	CARBON 1.5K 5% 1/4W	
R224	1-247-835-11	CARBON 1.5K 5% 1/4W	
R225	1-247-855-11	CARBON 10K 5% 1/4W	
R227	1-247-855-11	CARBON 10K 5% 1/4W	
R228	1-249-417-11	CARBON 1K 5% 1/4W	F
R229	1-247-879-11	CARBON 100K 5% 1/4W	
R231	1-247-839-11	CARBON 2.2K 5% 1/4W	
R232	1-247-839-11	CARBON 2.2K 5% 1/4W	
R233	1-249-427-11	CARBON 6.8K 5% 1/4W	F
R234	1-249-427-11	CARBON 6.8K 5% 1/4W	F
R235	1-214-945-00	METAL 2.2M 1% 1/2W	
R236	1-214-945-00	METAL 2.2M 1% 1/2W	
R237	1-249-418-11	CARBON 1.2K 5% 1/4W	F
R238	1-249-418-11	CARBON 1.2K 5% 1/4W	F
R239	1-249-413-11	CARBON 470 5% 1/4W	F
R240	1-247-871-11	CARBON 47K 5% 1/4W	
R241	1-249-417-11	CARBON 1K 5% 1/4W	F
R242	1-247-839-11	CARBON 2.2K 5% 1/4W	
R243	1-247-847-11	CARBON 4.7K 5% 1/4W	
R244	1-247-847-11	CARBON 4.7K 5% 1/4W	
R245	1-249-427-11	CARBON 6.8K 5% 1/4W	F
R246	1-249-427-11	CARBON 6.8K 5% 1/4W	F
R247	1-247-835-11	CARBON 1.5K 5% 1/4W	
R248	1-247-835-11	CARBON 1.5K 5% 1/4W	
R249	1-247-835-11	CARBON 1.5K 5% 1/4W	
R250	1-247-835-11	CARBON 1.5K 5% 1/4W	
R251	1-247-871-11	CARBON 47K 5% 1/4W	
R252	1-247-871-11	CARBON 47K 5% 1/4W	
R253	1-247-839-11	CARBON 2.2K 5% 1/4W	
R254	1-247-839-11	CARBON 2.2K 5% 1/4W	
R255	1-249-417-11	CARBON 1K 5% 1/4W	F
R256	1-249-417-11	CARBON 1K 5% 1/4W	F
R257	1-247-847-11	CARBON 4.7K 5% 1/4W	

Ref. No.	Part No.	Description			Remarks
R258	1-247-855-11	CARBON	10K	5%	1/4W
R259	1-247-855-11	CARBON	10K	5%	1/4W
R260	1-247-871-11	CARBON	47K	5%	1/4W
R261	1-247-871-11	CARBON	47K	5%	1/4W
R262	1-247-871-11	CARBON	47K	5%	1/4W
R263	1-247-871-11	CARBON	47K	5%	1/4W
R264	1-247-871-11	CARBON	47K	5%	1/4W
R265	1-247-871-11	CARBON	47K	5%	1/4W
R266	1-247-871-11	CARBON	47K	5%	1/4W
R267	1-247-871-11	CARBON	47K	5%	1/4W
R268	1-247-871-11	CARBON	47K	5%	1/4W
R301	1-249-417-11	CARBON	1K	5%	1/4W F
R302	1-249-417-11	CARBON	1K	5%	1/4W F
R303	1-247-879-11	CARBON	100K	5%	1/4W
R304	1-247-879-11	CARBON	100K	5%	1/4W
R305	1-247-855-11	CARBON	10K	5%	1/4W
R306	1-247-855-11	CARBON	10K	5%	1/4W
R307	1-247-849-11	CARBON	5.6K	5%	1/4W
R308	1-247-849-11	CARBON	5.6K	5%	1/4W
R309	1-249-417-11	CARBON	1K	5%	1/4W F
R310	1-249-417-11	CARBON	1K	5%	1/4W F
R311	1-249-417-11	CARBON	1K	5%	1/4W F
R312	1-249-417-11	CARBON	1K	5%	1/4W F
R313	1-247-871-11	CARBON	47K	5%	1/4W
R314	1-247-871-11	CARBON	47K	5%	1/4W
R315	1-249-432-11	CARBON	18K	5%	1/4W
R316	1-249-432-11	CARBON	18K	5%	1/4W
R317	1-247-855-11	CARBON	10K	5%	1/4W
R318	1-247-855-11	CARBON	10K	5%	1/4W
R319	1-249-440-11	CARBON	82K	5%	1/4W
R320	1-249-440-11	CARBON	82K	5%	1/4W
R321	1-247-887-00	CARBON	220K	5%	1/4W
R322	1-247-887-00	CARBON	220K	5%	1/4W
R323	1-247-839-11	CARBON	2.2K	5%	1/4W
R324	1-247-839-11	CARBON	2.2K	5%	1/4W
R325	1-247-871-11	CARBON	47K	5%	1/4W
R326	1-247-871-11	CARBON	47K	5%	1/4W
R327	1-249-417-11	CARBON	1K	5%	1/4W F
R328	1-249-417-11	CARBON	1K	5%	1/4W F
R329	1-247-871-11	CARBON	47K	5%	1/4W
R330	1-247-847-11	CARBON	4.7K	5%	1/4W
R331	1-247-855-11	CARBON	10K	5%	1/4W
R332	1-247-855-11	CARBON	10K	5%	1/4W
R333	1-247-871-11	CARBON	47K	5%	1/4W
R334	1-247-871-11	CARBON	47K	5%	1/4W
R337	1-247-863-11	CARBON	22K	5%	1/4W
R338	1-249-420-11	CARBON	1.8K	5%	1/4W F
R339	1-247-903-00	CARBON	1M	5%	1/4W
R344	1-249-418-11	CARBON	1.2K	5%	1/4W F
R345	1-249-413-11	CARBON	470	5%	1/4W F
R346	1-215-880-11	METAL OXIDE	10	5%	2W F
R347	1-249-417-11	CARBON	1K	5%	1/4W F
R350	1-249-418-11	CARBON	1.2K	5%	1/4W F
R351	1-249-424-11	CARBON	3.9K	5%	1/4W F
R352	1-247-879-11	CARBON	100K	5%	1/4W
R353	1-247-871-11	CARBON	47K	5%	1/4W
R354	1-249-409-11	CARBON	220	5%	1/4W F
R355	1-247-847-11	CARBON	4.7K	5%	1/4W
R356	1-249-413-11	CARBON	470	5%	1/4W F
R357	1-249-413-11	CARBON	470	5%	1/4W F

Ref. No.	Part No.	Description			Remarks
R800A	1-249-417-11	CARBON	1K	5%	1/4W F
R801	1-249-393-11	CARBON	10	5%	1/4W F
R802	1-249-393-11	CARBON	10	5%	1/4W F
R803	1-247-855-11	CARBON	10K	5%	1/4W
R804	1-247-855-11	CARBON	10K	5%	1/4W
R805	1-247-855-11	CARBON	10K	5%	1/4W
R806	1-247-855-11	CARBON	10K	5%	1/4W
R807	1-249-434-11	CARBON	27K	5%	1/4W
R808	1-249-417-11	CARBON	1K	5%	1/4W F
R809	1-247-839-11	CARBON	2.2K	5%	1/4W
R810	1-247-855-11	CARBON	10K	5%	1/4W
R811	1-247-847-11	CARBON	4.7K	5%	1/4W
R812	1-247-839-11	CARBON	2.2K	5%	1/4W
R814	1-249-427-11	CARBON	6.8K	5%	1/4W F
R815	1-249-427-11	CARBON	6.8K	5%	1/4W F
R816	1-247-891-00	CARBON	330K	5%	1/4W
R817	1-247-891-00	CARBON	330K	5%	1/4W
R818	1-247-871-11	CARBON	47K	5%	1/4W
R819	1-247-871-11	CARBON	47K	5%	1/4W
R820	1-249-431-11	CARBON	15K	5%	1/4W
R821	1-249-431-11	CARBON	15K	5%	1/4W
R822	1-249-434-11	CARBON	27K	5%	1/4W
R823	1-249-434-11	CARBON	27K	5%	1/4W
R824	1-247-843-11	CARBON	3.3K	5%	1/4W
R825	1-247-843-11	CARBON	3.3K	5%	1/4W
R826	1-247-825-11	CARBON	560	5%	1/4W
R827	1-249-436-11	CARBON	39K	5%	1/4W
R828	1-249-409-11	CARBON	220	5%	1/4W F
R829	1-249-431-11	CARBON	15K	5%	1/4W
R830	1-249-427-11	CARBON	6.8K	5%	1/4W F
R831	1-247-855-11	CARBON	10K	5%	1/4W
R832	1-247-855-11	CARBON	10K	5%	1/4W
R833	1-247-855-11	CARBON	10K	5%	1/4W
R834	1-247-879-11	CARBON	100K	5%	1/4W
R835	1-247-879-11	CARBON	100K	5%	1/4W
R836	1-249-420-11	CARBON	1.8K	5%	1/4W F
R837	1-249-417-11	CARBON	1K	5%	1/4W F
R838	1-249-417-11	CARBON	1K	5%	1/4W F
R839	1-249-428-11	CARBON	8.2K	5%	1/4W F
R840	1-249-428-11	CARBON	8.2K	5%	1/4W F
R841	1-247-889-00	CARBON	270K	5%	1/4W
R842	1-247-889-00	CARBON	270K	5%	1/4W
R843	1-247-849-11	CARBON	5.6K	5%	1/4W
R844	1-247-849-11	CARBON	5.6K	5%	1/4W
R845	1-247-863-11	CARBON	22K	5%	1/4W
R846	1-247-863-11	CARBON	22K	5%	1/4W
R847	1-249-417-11	CARBON	1K	5%	1/4W F
R848	1-249-417-11	CARBON	1K	5%	1/4W F
R849	1-214-941-00	METAL	1.5M	1%	1/2W
R850	1-247-855-11	CARBON	10K	5%	1/4W
R851	1-247-855-11	CARBON	10K	5%	1/4W
R852	1-247-903-00	CARBON	1M	5%	1/4W
R853	1-247-903-00	CARBON	1M	5%	1/4W
R854	1-247-847-11	CARBON	4.7K	5%	1/4W
R855	1-247-847-11	CARBON	4.7K	5%	1/4W
R856	1-247-841-11	CARBON	2.7K	5%	1/4W
R857	1-247-841-11	CARBON	2.7K	5%	1/4W
R858	1-247-849-11	CARBON	5.6K	5%	1/4W
R859	1-247-849-11	CARBON	5.6K	5%	1/4W
R860	1-249-417-11	CARBON	1K	5%	1/4W F

MAIN POWER SUPPLY POWER (AMP)

Ref. No.	Part No.	Description			Remarks
R861	1-249-430-11	CARBON	12K	5%	1/4W
R862	1-249-430-11	CARBON	12K	5%	1/4W
R863	1-247-839-11	CARBON	2.2K	5%	1/4W
R864	1-247-839-11	CARBON	2.2K	5%	1/4W
R865	1-249-430-11	CARBON	12K	5%	1/4W
R866	1-249-430-11	CARBON	12K	5%	1/4W
R867	1-247-879-11	CARBON	100K	5%	1/4W
R868	1-249-431-11	CARBON	15K	5%	1/4W
R869	1-249-431-11	CARBON	15K	5%	1/4W
R870	1-247-855-11	CARBON	10K	5%	1/4W
R871	1-247-855-11	CARBON	10K	5%	1/4W
R872	1-247-867-11	CARBON	33K	5%	1/4W
R873	1-247-867-11	CARBON	33K	5%	1/4W
R874	1-247-839-11	CARBON	2.2K	5%	1/4W
R875	1-247-839-11	CARBON	2.2K	5%	1/4W
R876	1-249-439-11	CARBON	68K	5%	1/4W
R877	1-249-439-11	CARBON	68K	5%	1/4W
R878	1-249-432-11	CARBON	18K	5%	1/4W
R880	1-249-409-11	CARBON	220	5%	1/4W F
R881	1-247-855-11	CARBON	10K	5%	1/4W
R882	1-247-871-11	CARBON	47K	5%	1/4W
R883	1-249-417-11	CARBON	1K	5%	1/4W F
R884	1-249-417-11	CARBON	1K	5%	1/4W F
R887	1-247-843-11	CARBON	3.3K	5%	1/4W
R888	1-247-855-11	CARBON	10K	5%	1/4W
R889	1-247-847-11	CARBON	4.7K	5%	1/4W
R890	1-247-839-11	CARBON	2.2K	5%	1/4W
R891	1-247-855-11	CARBON	10K	5%	1/4W
R892	1-247-855-11	CARBON	10K	5%	1/4W
R893	1-249-381-11	CARBON	1	5%	1/4W F
R894	1-249-399-11	CARBON	33	5%	1/4W F
R895	1-249-431-11	CARBON	15K	5%	1/4W
R896	1-249-431-11	CARBON	15K	5%	1/4W
R897	1-247-855-11	CARBON	10K	5%	1/4W
R898	1-249-401-11	CARBON	47	5%	1/4W F
R899	1-249-401-11	CARBON	47	5%	1/4W F
R901	1-247-703-11	CARBON	180	5%	1/4W F
R904	1-247-879-11	CARBON	100K	5%	1/4W
R905	1-249-438-11	CARBON	56K	5%	1/4W
R906	1-247-847-11	CARBON	4.7K	5%	1/4W
R907	1-247-855-11	CARBON	10K	5%	1/4W
R911	1-247-855-11	CARBON	10K	5%	1/4W
R912	1-247-855-11	CARBON	10K	5%	1/4W
R913	1-247-839-11	CARBON	2.2K	5%	1/4W
R914	1-247-871-11	CARBON	47K	5%	1/4W
R915	1-247-871-11	CARBON	47K	5%	1/4W
R916	1-247-899-11	CARBON	680K	5%	1/4W
R917	1-247-885-00	CARBON	180K	5%	1/4W
R918	1-249-411-11	CARBON	330	5%	1/4W
R919	1-247-855-11	CARBON	10K	5%	1/4W
R920	1-247-899-11	CARBON	680K	5%	1/4W
R921	1-247-885-00	CARBON	180K	5%	1/4W
R922	1-249-417-11	CARBON	1K	5%	1/4W F
R923	1-247-855-11	CARBON	10K	5%	1/4W
R924	1-247-855-11	CARBON	10K	5%	1/4W

Ref. No.	Part No.	Description			Remarks
R925	1-247-879-11	CARBON	100K	5%	1/4W
R926	1-249-409-11	CARBON	220	5%	1/4W F
R930	1-247-839-11	CARBON	2.2K	5%	1/4W
R931	1-247-863-11	CARBON	22K	5%	1/4W
		< ADJUSTABLE RESISTOR >			
SFR101	1-228-995-00	RES, ADJ, METAL 22K			
SFR801	1-228-990-00	RES, ADJ, METAL 1K			
SFR802	1-228-990-00	RES, ADJ, METAL 1K			
SFR803	1-228-995-00	RES, ADJ, METAL 22K			
SFR804	1-228-995-00	RES, ADJ, METAL 22K			
SFR805	1-228-995-00	RES, ADJ, METAL 22K			
SFR806	1-228-995-00	RES, ADJ, METAL 22K			
SFR807	1-228-998-00	RES, ADJ, METAL 220K			
SFR808	1-228-998-00	RES, ADJ, METAL 220K			
		< TRANSFORMER >			
T102	1-429-554-11	TRANSFORMER, AM IFT			
		< TRIMMER CAP >			
TC102	1-141-304-21	CAP, TRIMMER 10PF			
		< VIBRATOR >			
X101	1-579-585-11	VIBRATOR, CRYSTAL (7.2MHz)			
**********					
		POWER SUPPLY BOARD			
		**********			
⚠	1-533-293-11	FUSE HOLDER			
		< FUSE >			
⚠F702	1-576-109-11	FUSE	5.0A	125V	
		< RESISTOR >			
R001	1-219-238-11	SOLID	4.7M	20%	1/2W
**********					
	A-4426-123-A	POWER (AMP) BOARD, COMPLETE			
		**********			
⚠	1-533-293-11	FUSE HOLDER			
		< CAPACITOR >			
C701	1-126-961-11	ELECT	2.2uF	20%	50V
C702	1-126-961-11	ELECT	2.2uF	20%	50V
C703	1-162-290-31	CERAMIC	470PF	10%	50V
C704	1-162-290-31	CERAMIC	470PF	10%	50V
C705	1-126-964-11	ELECT	10uF	20%	50V
C706	1-126-964-11	ELECT	10uF	20%	50V
C707	1-128-563-11	ELECT	100uF	20%	100V
C708	1-128-563-11	ELECT	100uF	20%	100V
C709	1-164-159-11	CERAMIC	0.1uF		50V
C710	1-128-563-11	ELECT	100uF	20%	100V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remarks
C711	1-128-563-11	ELECT	100uF	20%	100V
C713	1-162-199-31	CERAMIC	10PF	5%	50V
C714	1-162-199-31	CERAMIC	10PF	5%	50V
C717	1-137-351-11	FILM	0.022uF	5%	100V
C718	1-137-351-11	FILM	0.022uF	5%	100V
C719	1-164-159-11	CERAMIC	0.1uF		50V
C721	1-137-399-11	FILM	0.1uF	5%	100V
C722	1-137-399-11	FILM	0.1uF	5%	100V
C723	1-126-961-11	ELECT	2.2uF	20%	50V
C724	1-137-393-11	FILM	0.01uF	5%	100V
C725	1-126-235-11	ELECT	100uF	20%	16V
C726	1-126-933-11	ELECT	100uF	20%	16V
C727	1-161-494-00	CERAMIC	0.022uF		25V
C728	1-126-963-11	ELECT	4.7uF	20%	50V
C733	1-126-961-11	ELECT	2.2uF	20%	50V
C734	1-161-494-00	CERAMIC	0.022uF		25V
C735	1-126-949-11	ELECT	220uF	20%	35V
C736	1-161-494-00	CERAMIC	0.022uF		25V
C737	1-126-948-11	ELECT	100uF	20%	35V
C738	1-161-494-00	CERAMIC	0.022uF		25V
C739	1-126-935-11	ELECT	470uF	20%	16V
C740	1-161-494-00	CERAMIC	0.022uF		25V
C741	1-104-482-11	ELECT	4700uF	20%	63V
C742	1-104-482-11	ELECT	4700uF	20%	63V
C743	1-102-129-00	CERAMIC	10000PF	10%	50V
C744	1-102-129-00	CERAMIC	10000PF	10%	50V
C745	1-102-129-00	CERAMIC	10000PF	10%	50V
C746	1-102-129-00	CERAMIC	10000PF	10%	50V
C747	1-161-494-00	CERAMIC	0.022uF		25V
C748	1-161-494-00	CERAMIC	0.022uF		25V
C749	1-161-494-00	CERAMIC	0.022uF		25V
C750	1-161-494-00	CERAMIC	0.022uF		25V
C751	1-126-943-11	ELECT	2200uF	20%	25V
C752	1-126-933-11	ELECT	100uF	20%	16V
C753	1-161-494-00	CERAMIC	0.022uF		25V
C754	1-161-494-00	CERAMIC	0.022uF		25V
C755	1-161-494-00	CERAMIC	0.022uF		25V
C756	1-126-934-11	ELECT	220uF	20%	16V
C757	1-126-934-11	ELECT	220uF	20%	16V
C758	1-161-494-00	CERAMIC	0.022uF		25V
C759	1-109-952-11	ELECT	0.47uF	20%	50V
C762	1-126-959-11	ELECT	0.47uF	20%	50V
C763	1-126-933-11	ELECT	100uF	20%	16V
C764	1-104-664-11	ELECT	47uF	20%	16V
		< CONNECTOR >			
* CN701	1-564-715-11	PIN, CONNECTOR (SMALL TYPE)13P			
CN702	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P			
* CN703	1-564-510-11	PLUG, CONNECTOR 7P			
		< DIODE >			
D701	8-719-027-23	DIODE GBU6D			
D702	8-719-010-73	DIODE UZ-12BSA			
D703	8-719-011-06	DIODE UZ-27BSA			
D704	8-719-010-61	DIODE UZ-9.1BSA			
D705	8-719-031-85	DIODE 1N4002L			

Ref. No.	Part No.	Description			Remarks
D706	8-719-031-85	DIODE 1N4002L			
D707	8-719-031-85	DIODE 1N4002L			
D708	8-719-031-85	DIODE 1N4002L			
D709	8-719-031-85	DIODE 1N4002L			
D710	8-719-911-19	DIODE 1SS119			
D712	8-719-911-19	DIODE 1SS119			
D713	8-719-911-19	DIODE 1SS119			
D714	8-719-911-19	DIODE 1SS119			
D715	8-719-911-19	DIODE 1SS119			
D716	8-719-911-19	DIODE 1SS119			
D717	8-719-911-19	DIODE 1SS119			
D718	8-719-911-19	DIODE 1SS119			
D719	8-719-911-19	DIODE 1SS119			
		< FUSE >			
⚠F701	1-576-104-11	FUSE	2.0A	250V	
		< IC >			
IC701	8-749-015-45	IC STK407-090E			
IC702	8-759-111-68	IC UPC1237HA			
		< JACK >			
JK703	1-694-443-11	TERMINAL BOARD (SPEAKER)			
		< TRANSISTOR >			
Q702	8-729-188-23	TRANSISTOR 2SD882-P			
Q703	8-729-200-36	TRANSISTOR 2SA966			
Q704	8-729-048-99	TRANSISTOR 2SK2541			
Q705	8-729-048-99	TRANSISTOR 2SK2541			
Q706	8-729-231-55	TRANSISTOR 2SC2878-AB			
Q707	8-729-231-55	TRANSISTOR 2SC2878-AB			
Q708	8-729-108-19	TRANSISTOR 2SA988TP-EA			
Q709	8-729-231-55	TRANSISTOR 2SC2878-AB			
Q710	8-729-231-55	TRANSISTOR 2SC2878-AB			
Q711	8-729-184-53	TRANSISTOR 2SC1845-EA			
Q712	8-729-184-53	TRANSISTOR 2SC1845-EA			
Q713	8-729-026-29	TRANSISTOR 2SJ346			
		< RESISTOR >			
R701	1-249-438-11	CARBON	56K	5%	1/4W
R702	1-249-438-11	CARBON	56K	5%	1/4W
R703	1-247-839-11	CARBON	2.2K	5%	1/4W
R704	1-247-839-11	CARBON	2.2K	5%	1/4W
R705	1-249-438-11	CARBON	56K	5%	1/4W
R706	1-249-438-11	CARBON	56K	5%	1/4W
R707	1-247-839-11	CARBON	2.2K	5%	1/4W
R708	1-247-839-11	CARBON	2.2K	5%	1/4W
R709	1-249-438-11	CARBON	56K	5%	1/4W
R710	1-249-438-11	CARBON	56K	5%	1/4W
R711	1-249-405-11	CARBON	100	5%	1/4W F
R712	1-249-417-11	CARBON	1K	5%	1/4W F
R713	1-249-417-11	CARBON	1K	5%	1/4W F
R714	1-249-405-11	CARBON	100	5%	1/4W F
R715	1-249-431-11	CARBON	15K	5%	1/4W

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POWER (AMP) | REM | TR | VR

Ref. No.	Part No.	Description			Remarks
R716	1-249-431-11	CARBON	15K	5%	1/4W
R719	1-220-890-11	METAL	0.22	10%	3W
R720	1-220-890-11	METAL	0.22	10%	3W
R721	1-247-879-11	CARBON	100K	5%	1/4W
R722	1-247-879-11	CARBON	100K	5%	1/4W
R723	1-215-867-00	METAL OXIDE	470	5%	1W F
R724	1-215-867-00	METAL OXIDE	470	5%	1W F
R725	1-247-843-11	CARBON	3.3K	5%	1/4W
R726	1-247-843-11	CARBON	3.3K	5%	1/4W
R727	1-249-430-11	CARBON	12K	5%	1/4W
R728	1-249-430-11	CARBON	12K	5%	1/4W
R729	1-247-839-11	CARBON	2.2K	5%	1/4W
R730	1-247-871-11	CARBON	47K	5%	1/4W
R731	1-247-887-00	CARBON	220K	5%	1/4W
R732	1-249-417-11	CARBON	1K	5%	1/4W F
R733	1-249-438-11	CARBON	56K	5%	1/4W
R734	1-247-847-11	CARBON	4.7K	5%	1/4W
R735	1-249-455-11	CARBON	4.7	5%	1/4W
R736	1-249-455-11	CARBON	4.7	5%	1/4W
R739	1-215-857-11	METAL OXIDE	10	5%	1W F
R740	1-216-450-00	METAL OXIDE	82	5%	2W F
R742	1-249-413-11	CARBON	470	5%	1/4W F
R743	1-249-418-11	CARBON	1.2K	5%	1/4W F
R744	1-249-411-11	CARBON	330	5%	1/4W
R747	1-247-847-11	CARBON	4.7K	5%	1/4W
R748	1-247-855-11	CARBON	10K	5%	1/4W
R749	1-247-841-11	CARBON	2.7K	5%	1/4W
R750	1-247-839-11	CARBON	2.2K	5%	1/4W
R751	1-247-862-11	CARBON	20K	5%	1/4W
R752	1-247-855-11	CARBON	10K	5%	1/4W
R753	1-247-855-11	CARBON	10K	5%	1/4W
R754	1-247-895-00	CARBON	470K	5%	1/4W
R760	1-247-863-11	CARBON	22K	5%	1/4W
R761	1-247-855-11	CARBON	10K	5%	1/4W
R762	1-247-903-00	CARBON	1M	5%	1/4W
R763	1-247-879-11	CARBON	100K	5%	1/4W
R764	1-249-417-11	CARBON	1K	5%	1/4W F
R765	1-247-863-11	CARBON	22K	5%	1/4W
R766	1-247-863-11	CARBON	22K	5%	1/4W
		< RELAY >			
RL701	1-515-921-11	RELAY (12V)			
**********					
	1-674-633-11	REM BOARD			
		**********			
		< CAPACITOR >			
C666	1-126-966-11	ELECT	33uF	20%	16V
		< IC >			
RM601	8-749-013-84	IC SPS-447-1			
**********					

Ref. No.	Part No.	Description	Remarks
	1-674-642-11	TR BOARD	
		**********	
		< TRANSISTOR >	
Q701	8-729-822-89	TRANSISTOR 2SD1667-R	
**********			
	1-674-631-11	VR BOARD	
		********	
		< VARIABLE RESISTOR >	
VR601	1-475-841-11	ENCORDER (VOLUME)	
**********			
		MISCELLANEOUS	
		**********	
124	1-772-164-11	DECK, MECH	
135	1-783-579-11	WIRE (FLAT TYPE) (16 CORE)	
⚠151	1-783-531-51	CORD, POWER	
⚠T001	1-433-921-11	TRANSFORMER, POWER	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-475-829-11	REMOTE COMMANDER (RM-SG7B)	
	1-501-374-11	ANTENNA, LOOP	
	1-501-594-11	ANTENNA (FM)	
	3-866-219-11	MANUAL, INSTRUCTION (ENGLISH)	
	3-866-219-21	MANUAL, INSTRUCTION (FRENCH) (CND)	
	4-982-031-01	COVER, BATTERY (for RM-SG7B)	
**********			
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-903-21	SCREW +PTPWH 3 × 8 (TYPE2)	
#2	7-685-871-09	SCREW +BVTT 3 × 6 (S)	
#3	7-682-549-09	SCREW +B 3 × 10	
#4	7-685-871-01	SCREW +BVTT 3 × 6 (S)	
#5	7-685-863-09	SCREW +BVTT 2.6 × 8 (S)	
#6	7-685-646-79	SCREW +BVTP 3 × 8 TYPE2 TT(B)	
#7	7-685-647-79	SCREW, TAPPING	
#9	7-682-904-11	SCREW +PWH 4 × 8	
#10	7-681-000-61	SCREW +PWH M3 × 8	
#11	7-685-649-79	SCREW +BVTP 3 × 14 TYPE2 IT-3	

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